JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

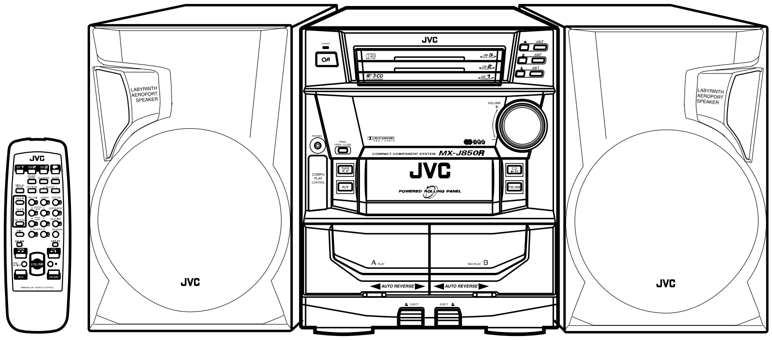
MX-J800 / MX-J850R

CD-ROM No.SML200006

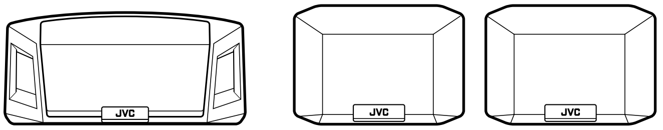
**This model is a change of the model name of preceding model MX-J70/MX-J75R.
Therefore, a basic specification is the same as preceding model MX-J70/MX-J75R.
This service manual is composed only of the parts list (except the mechanism part).
For others, please refer to the SERVICE MANUAL for MX-J70/MX-J76/MX-J75R (issue No.20762).
A concrete difference point is as follows.**

Area Suffix(MX-J800)	
J	U.S.A.
C	Canada

Area Suffix(MX-J850R)	
B	U.K.
E	Continental Europe
EN	Nothern Europe
EV	Eastern Europe



This illustration is MX-J850R



(SP-DSC99BU) (SP-DSS99BU)

SP-DS99BU

COMPACT
disc
DIGITAL AUDIO

(MX-J850R ONLY)

DOLBY SURROUND
PRO · LOGIC

Difference point with preceding model

	Button name		Center/Surround speaker
MX-J70/J75R	TIMER/CLOCK	DECK A/B	SP-DS99SL
MX-J800/J850R	CLOCK/TIMER	TAPE A/B	SP-DS99BU

Contents

Parts list -------------------- 1

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No.20835
JUN. 2000

< MEMO >

PARTS LIST

[MX-J800]
[MX-J850R]

* All printed circuit boards and its assemblies are not available as service parts.

MX-J800

Area suffix

J ---------------------------- U.S.A.
C ------------------------- Canada

CA-MXJ850R/SP-MXJ850R

Area suffix

B ------------------------------- U.K.
E ----------- Continental Europe
EN ------------ Northern Europe
EV -------------- Eastern Europe

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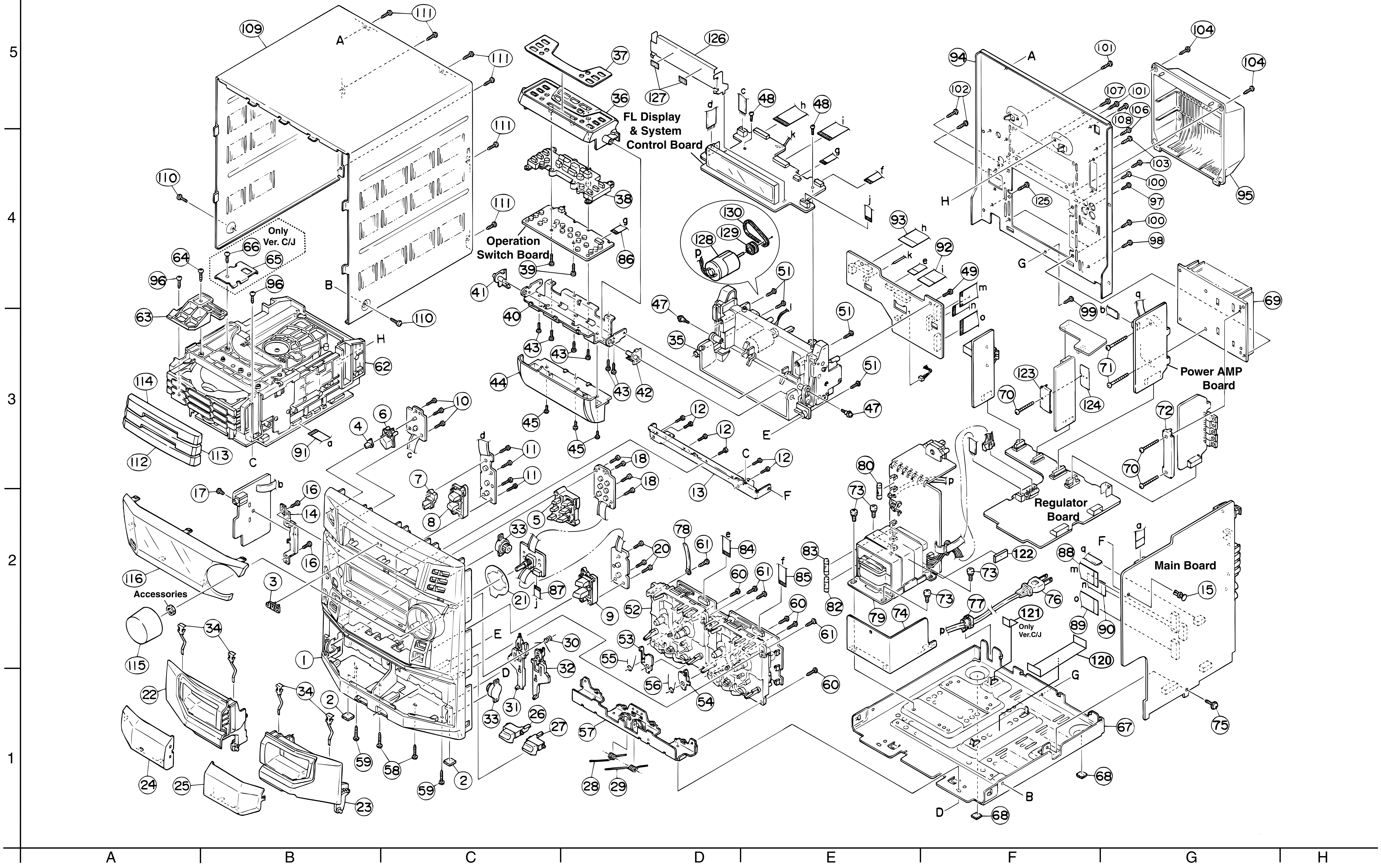
Exploded view of general assembly and parts list

Block No. M 1 M M


FL Display
& System
Control Board
Operation
Switch Board
Only
Ver. C/J
Power AMP
Board
Regulator
Board
Main Board
Accessories
Only
Ver.C/J
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■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	GV10010-028A	FRONT PANEL	1	CA-MXJ850R	
		GV10010-026A	FRONT PANEL	1	MX-J800	
	2	E75896-001	FELT SPACER	2		
	3	VJD5429-001	JVC MARK	1		
	4	GV40016-001A	STBY.INDICATOR	1		
	5	GV30047-009A	CD BUTTON ASSY	1		
	6	GV30029-008A	POWER BUTTON	1	MX-J800	
		GV30029-009A	POWER BUTTON	1	CA-MXJ850R	
	7	GV30045-005A	PUSH BUTTON	1		
	8	GV20033-001A	SOURCE BUTTON(A)	1		
	9	GV20034-001A	SOURCE BUTTON(B)	1		
	10	QYSDSF2608Z	SCREW	3	ON/STANDBY BOARD	
	11	QYSDSF2608Z	SCREW	4	AUX/TAPE S.BOARD	
	12	QYSDSF2608Z	SCREW	6	STY.BKT+F.PANEL	
	13	GV30030-001A	STAY BRACKET	1		
	14	GV40030-001A	PHONE BRACKET	1		
	15	FMYH4004-001	PLASTIC RIVET	1	MAIN BOARD&BKT.	
	16	QYSDSF2608Z	SCREW	2	PHONE BKT.+F.PANEL	
	17	QYSBST3006Z	T.SCREW	1	PHONE BKT.+BOARD	
	18	QYSDSF2608Z	SCREW	4	CD SWITCH BOARD	
	20	QYSDSF2608Z	SCREW	3	TUNER/CD S.BOARD	
	21	GV40043-001A	VOLUME SHEET	1		
	22	GV20022-005A	CASSETTE HOLDER(L)	1		
	23	GV20023-005A	CASSETTE HOLDER(R)	1		
	24	GV20024-001A	CASSETTE LENS(L)	1		
	25	GV20025-001A	CASSETTE LENS(R)	1		
	26	GV30026-005A	EJECT BUTTON(A)	1		
	27	GV30027-005A	EJECT BUTTON(B)	1		
	28	FMKW4009-001	HOLDER SPRING(A)	1		
	29	FMKW4010-001	HOLDER SPRING(B)	1		
	30	FMKW4011-001	SPRING	1	FOR EJECT LEVER	
	31	FMKS3002-003	EJECT LEVER(A)	1		
	32	FMKS3003-003	EJECT BUTTON(B)	1		
	33	GV40034-001A	DAMPER ASSY	2		
	34	VKY4180-401	CASSETTE SPRING	4		
	35	GV10014-005A	CASE ASSY	1		
	36	GV30039-004A	MOVING PANEL(A)	1		
	37	GV30040-025A	CONTROL SHEET	1	MX-J800	
		GV30040-026A	CONTROL SHEET	1	CA-MXJ850R	
	38	GV30041-012A	CONTROL BUTTON	1	CA-MXJ850R	
		GV30041-011A	CONTROL BUTTON	1	MX-J800	
	39	QYSDSF2608Z	SCREW	2		
	40	GV30042-002A	PANEL BRACKET	1		
	41	GV40028-001A	PANEL HOLDER(L)	1		
	42	GV40028-002A	PANEL HOLDER(R)	1		
	43	QYSDSF2608Z	SCREW	6		
	44	GV30043-004A	MOVING PANEL(B)	1		
	45	QYSBST2606Z	T.SCREW	3		

■ Parts list (General assembly)

Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	47	VKZ4341-204	SPECIAL SCREW	2		
	48	QYSDSF2608Z	SCREW	2	MICOM BOARD/CASE	
	49	QYSDSF2608Z	SCREW	1	CONN.BOARD/CASE	
	51	QYSSSF3012Z	TAP SCREW	4	MOVING PANEL/F.PANEL	
	52	---------------	CASSETTE MECHA	1		
	53	FMKL4012-004	EJECT SAFETY(A)	1		
	54	FMKL4013-001	EJECT SAFETY(B)	1		
	55	FMKW4007-001	SPRING (A)	1	EJECT SAFETY(A)	
	56	FMKW4008-001	SPRING (B)	1	EJECT SAFETY(B)	
	57	GV20030-001A	HOLDER BRACKET	1		
	58	QYSBSG3010E	T.SCREW	2	F.P.TO H.BKT.	
	59	QYSBSG3010E	T.SCREW	2	F.P.TO CHS.BASE	
	60	QYSBSG3010Z	T.SCREW	4	MECHA & H.BKT.	
	61	QYSBSF3010Z	SCREW	4	MECHA & F.PANEL	
	62	---------------	VIDEO 3CD CHANGER	1		
	63	E309662-001SM	DISC STOPPER	1		
	64	QYSBSF3008Z	SCREW	1	FOR DISC STOPPER	
	65	FMKL4008-001	LOD STOPPER	1		J,C
	66	QYSBSF3008Z	SCREW	1	FOR LOD STOPPER	J,C
	67	GV10011-001A	CHASSIS BASE	1		
	68	E75896-006	FELT SPACER	2	CHASSIS BASE FOOT	
	69	GV30044-002A	HEAT SINK	1		
	70	QYSBSG3014E	T.SCREW	3		
	71	QYSBSG3020E	TAP SCREW	2		
	72	GV40029-001A	LEAF SPRING	1		
	73	QYSDSTL4008Z	SPECIAL SCREW	4		
	74	LE30469-001A	SHIELD PLATE	1		
	75	QYSBSGG3008E	T.SCREW	1	M.BOARD & C.BASE	
⚠	76	QMPD220-200-JD	POWER CORD	1		J,C
⚠		QMPK090-205-JN	POWER CORD	1		E,EN,EV
⚠		QMPN090-200-JC	POWER CORD	1		B
	77	QZW0033-001	STRAIN RELIEF	1		
	78	VKZ4001-110S	WIRE HOLDER	1		
⚠	79	QQT0250-001	POWER TRANSF	1	T001	J,C
⚠		QQT0250-002	POWER TRANSF	1	T001	B,E,EN,EV
⚠	80	QMF51U1-4R0-J1	FUSE	1	F001	J,C
⚠		QMF51E2-1R25-J1	FUSE	1	F001	B,E,EN,EV
⚠	82	QMF51U1-5R0-J1	FUSE	1	F101	J,C
⚠		QMF51E2-3R15-J1	FUSE	1	F101	B,E,EN,EV
⚠	83	QMF51U1-5R0-J1	FUSE	1	F102	J,C
⚠		QMF51E2-3R15-J1	FUSE	1	F102	B,E,EN,EV
	84	QUQ412-1014CJ	FFC WIRE(FC854)	1	SLC TO FMB(C)	
	85	QUQ412-1115DJ	FFC WIRE(FC803)	1	SLC TO FMB(FL)	
	86	QUQ610-0915BJ	FFC WIRE(FC921)	1	MOV.P TO FMB(FL)	
	87	QUQ412-1012CJ	FFC WIRE(FC971)	1	FMB TO FMB(FL)	
	88	QUQ412-2109CJ	FFC WIRE(FC857)	1	FMB(C) TO FMC	
	89	QUQ412-2109CJ	FFC WIRE(FC855)	1	FMB(C) TO FMC	
	90	QUQ412-1712CJ	FFC WIRE(FC856)	1	FMB(C) TO FMC	

■ Parts list (General assembly)

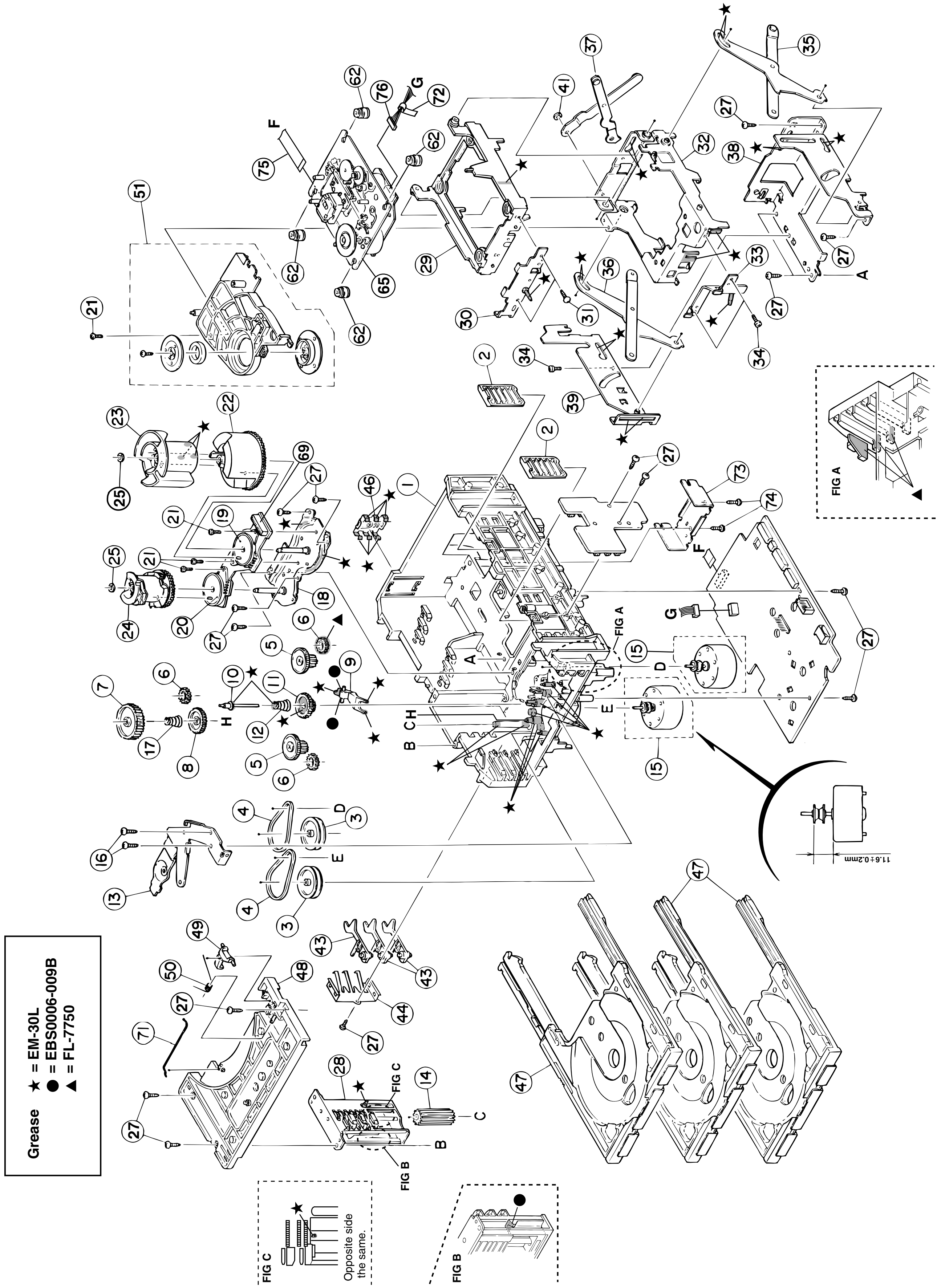
Block No. M1MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	91	QUQ110-1916BJ	FFC WIRE(FC410)	1	CD TO FMC	
	92	QUQ412-2112CJ	FFC WIRE(FC801)	1	FMB(FL)TO FMB(C)	
	93	QUQ412-2308CJ	FFC WIRE(FC802)	1	FMB(FL)TO FMB(C)	
	94	GV10013-060A	REAR PANEL	1	CA-MXJ850R	B,E,EN,EV
		GV10013-058A	REAR PANEL	1	MX-J800	C
		GV10013-057A	REAR PANEL	1	MX-J800	J
	95	E207356-002SM	REAR COVER	1		
	96	QYSBSG3008Z	T.SCREW	2	C3 & STAY BRACKET	
	97	QYSBSGY3008E	SPECIAL SCREW	1	AUX/REAR PANEL	
	98	QYSBSGY3008E	SPECIAL SCREW	1	E.PLATE/R.PANEL	
	99	QYSBSGY3008E	SPECIAL SCREW	1	R.PANEL/ C.BASE	
	100	QYSBSGY3008E	SPECIAL SCREW	4	H.SINK/ R.PANEL	
	101	QYSBSGY3008E	SPECIAL SCREW	2	C3 / REAR PANEL	
	102	QYSBSGY3008E	SPECIAL SCREW	2	SPK.TEM./R.PANE	
	103	QYSBSGY3008E	SPECIAL SCREW	2	ANTENA/ R.PANEL	
	104	QYSBSGY3008E	SPECIAL SCREW	2	R.COVER/R.PANEL	
	106	QYSBSGY3008E	SPECIAL SCREW	1	GROUND/R.PANEL	
	107	QYSBSGY3008E	SPECIAL SCREW	1	SUBWOOFER/R.PANEL	
	108	QYSBSGY3008E	SPECIAL SCREW	1	OPTICAL/R.PANEL	
	109	GV10012-001A/S/	METAL COVER	1		
	110	QYSDSG3006M	T.SCREW	2	M.COVER+C.BASE	
	111	QYSBSGY3008E	SPECIAL SCREW	6	M.COVER+R.PANEL	
	112	GV30033-006A	CD FITTING	1	DISC 1	
	113	GV30034-004A	CD FITTING	1	DISC 2	
	114	GV30035-006A	CD FITTING	1	DISC 3	
	115	GV30028-004A	VOLUMA KNOB	1		
	116	GV20026-017A	WINDOW SCREEN	1	MX-J800	
		GV20026-018A	WINDOW SCREEN	1	CA-MXJ850R	
	120	GV40048-001A	PROTECT SHEET(A)	1		
	121	GV40049-001A	PROTECT SHEET(B)	1		J,C
	122	FMYSH103-003	SPACER	1	STICK TO TRANSH	
	123	FMKL4007-001	BRACKET	1		
	124	FMPK4003-001T	MICA SHEET	1		
	125	QYSBSGY3008E	SPECIAL SCREW	1	PROLOGIC/R.PANE	
	126	GV30032-001A	FL HOLDER	1		
	127	E3400-439	FELT SPACER	2		
	128	MXN-13FB12F	DC MOTOR	1		
	129	GV40022-001A	MOTOR PULLEY	1		
	130	GV30038-001A	CAPSTAN BELT	1		
	131	FMYSH103-004	FELT SPACER	1	CA-MXJ850R	

CD changer mechanism assembly and parts list

VC3-22M

Block No. M 2 M M


Grease
★ = EM-30L
● = EBS0006-009B
▲ = FL-7750
FIG A
FIG B
FIG C
Opposite side the same.
11.6±0.2mm
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■ Parts list (CD changer mechanism)

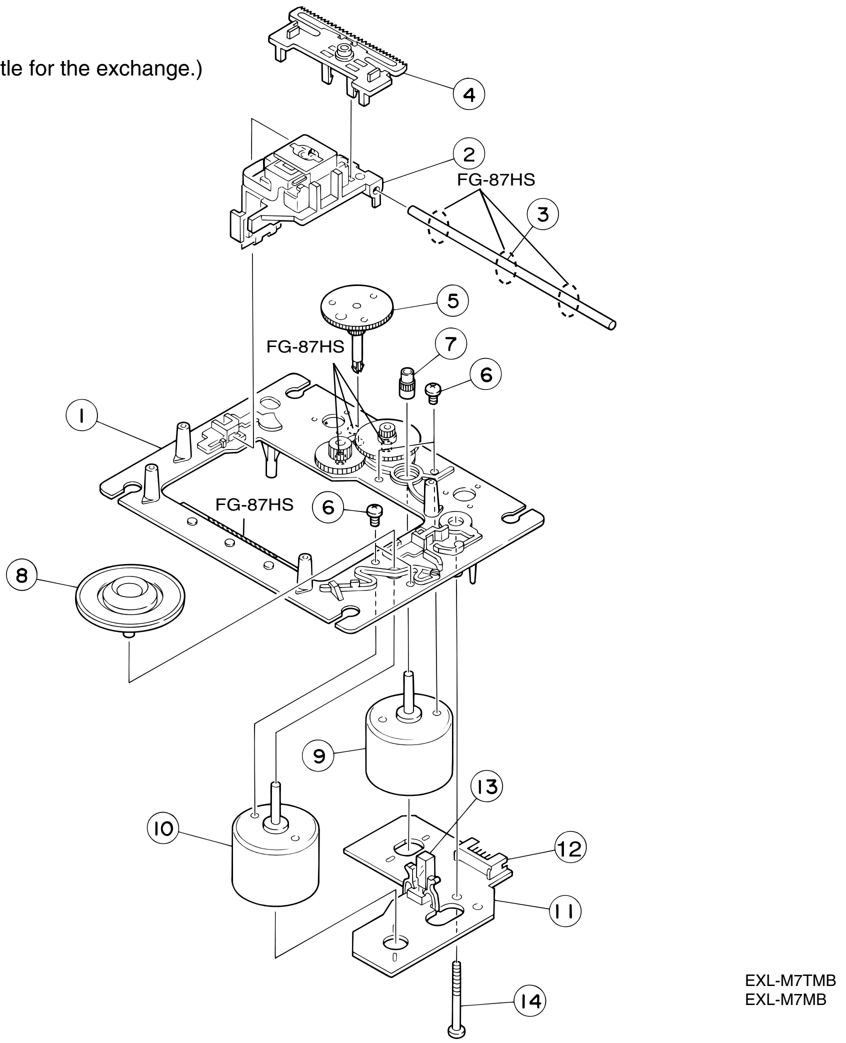
Block No. M2MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	VKS1144-003	CHASSIS	1		
	2	VKS3698-003	TRAY GUIDE	2		
	3	VKS5532-003	PULLEY GEAR	2		
	4	VKB3000-164	BELT	2		
	5	VKS5505-003	GEAR B	2		
	6	VKS5506-002	GEAR C	3		
	7	VKS5507-002	CROSS GEAR U	1		
	8	VKS5508-002	CROSS GEAR L	1		
	9	VKS5510-003	SELECT LEVER	1		
	10	VKH5769-001	S.G.SHAFT	1		
	11	VKS5511-002	SELECT GEAR	1		
	12	VKW5155-003	COMP.SPRING	1	FOR SELECT GEAR	
	13	VKM3846-002	GEAR BRACKET	1		
	14	VKS5509-002MM	CYLINDER GEAR	1		
	15	MSN5D257A-SA2	D.C.MOTOR ASS'Y	2		
	16	QYSPSPD2616Z	SCREW	2	FOR MOTOR	
	17	LV40612-001A	COMP.SPRING	1		
	18	VKM3825-00AMM	C.G.BASE ASS'Y	1		
	19	VKZ3172-00ASS	CAM SW. R ASS'Y	1		
	20	VKZ3173-00ASS	CAM SW. L ASS'Y	1		
	21	QYSPST2606Z	SCREW	4		
	22	VKS2263-002MM	CAM R1	1		
	23	VKS2264-002MM	CAM R2	1		
	24	VKS2265-002MM	CAM GEAR L	1		
	25	WDL316050MM	SLIT WASHER	2		
	27	QYSBSF2608Z	T.SCREW	16		
	28	VKS3702-00FMM	DRIVE UNIT	1		
	29	VKS2247-004	MECHA HOLDER A	1		
	30	VKL7767-00B	BRACKET ASS'Y	1		
	31	QYSBSF2606Z	SCREW	2	FOR BRACKET	
	32	VKM3860-00A	M.HOLDER B AS'Y	1		
	33	VKL7802-00C	M.HOLDER C AS'Y	1		
	34	QYSDST2604Z	SCREW	3		
	35	VKL7810-00A	LIFTER ASS'Y R	1		
	36	VKL7811-00A	LIFTER ASS'Y L	1		
	37	VKL7812-00A	LIFTER ASS'Y H	1		
	38	VKL2732-002	LIFTER BASE	1		
	39	VKM3857-001	LIFTER BRACKET	1		
	41	WDL266035-2	SLIT WASHER	1		
	43	VKS5514-002MM	LOCK LEVER	3		
	44	VKY3133-002MM	RETURN SPRING	1		
	46	VKY3134-003MM	CLICK SPRING	1		
	47	VKS2252-00E	TRAY ASS'Y	3		
	48	VKS2250-003	TOP BRACKET	1		
	49	VKS5515-002	S.TRAY STOPPER	1		
	50	VKW5156-004	TORSION SPRING	1		
	51	VKS3703-00G	CLAMPER ASS'Y	1		
	62	LV40761-003A	INSULATOR	4		
	65	---------------	CD MECHA	1		
	69	QGB2012J1-10	CONNECTOR	1		
	71	VKW5187-001	ROD	1		
	72	VYSA1R2-033	SPACER	1	FOR EWS176-008	
	73	LE30611-001A	C.B HOLDER	1	FOR CD CB	
	74	QYSBSF3008Z	SCREW	2	FOR HOLDER	
	75	QUQ610-1509AJ	CARD WIRE	1	TRAVERSE 15	
	76	EWS176-008	FLAT WIRE	1	TRAVERSE 6	

CD mechanism assembly and parts list

Block No. M 3 M M

Grease Point
FG-87HS
(Grease to apply have to be a little for the exchange.)



■ Parts list (CD mechanism)

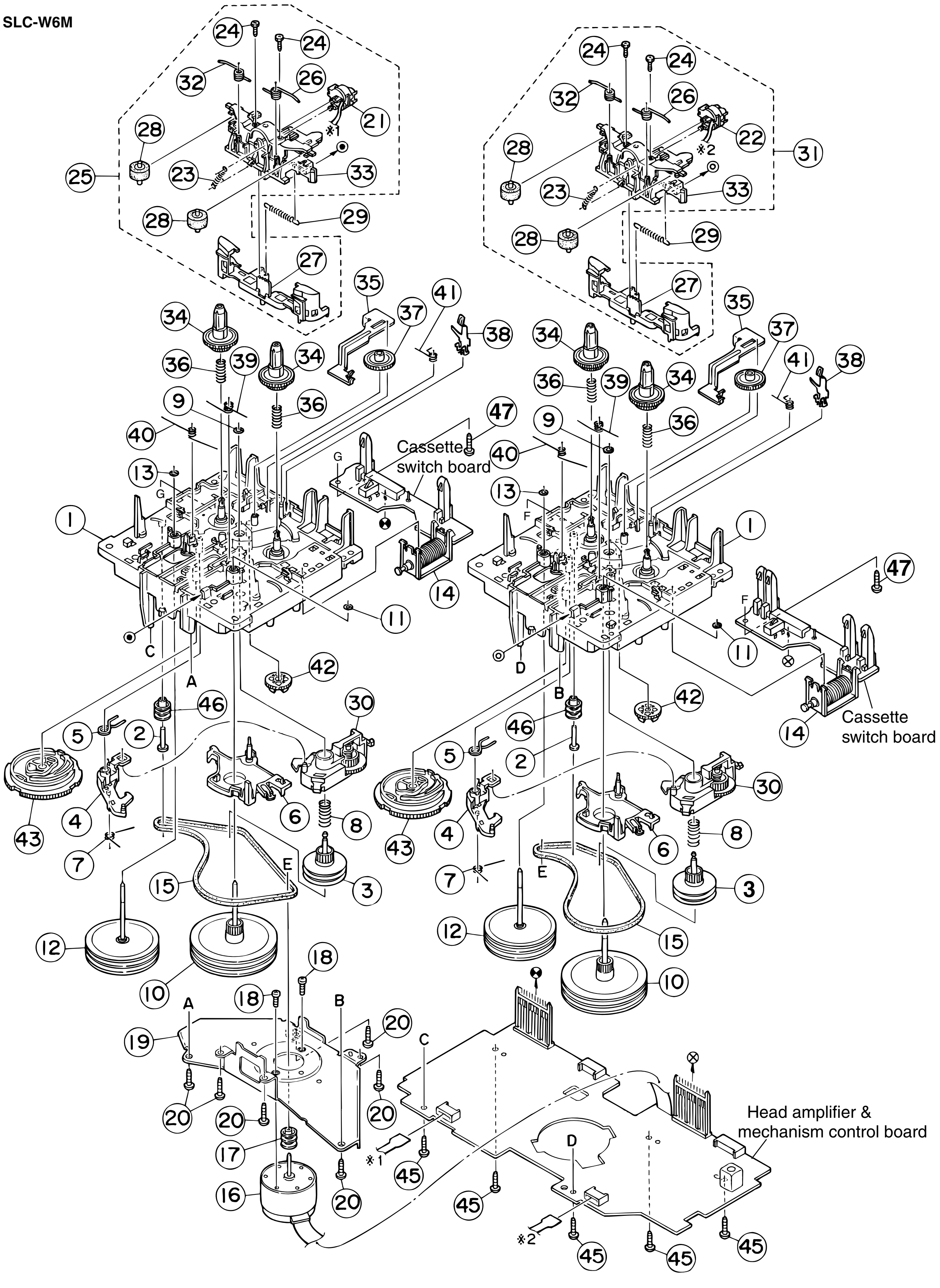
Block No. M3MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	E102731-221SM	MECHA BASE	1		
	2	OPTIMA-7B	OPTICAL PICK UP	1		
	3	E406777-002SM	CD SHAFT	1		
	4	LV31002-001A	CD RACK	1		
	5	E307745-441SM	MECHA GEAR	1		
	6	QYSDSP2003N	SCREW	4		
	7	E406750-442SM	PINION GEAR	1		
	8	EPB-001PK	TURN TABLE	1	SINGLE CD	
		EPB309173PKA	TURN TABLE	1	CHANGER CD	
	9	E406784-001	FEED MOTOR	1		
	10	QAR0130-001	SPPINDLE MOTOR	1		
	11	EMW10190-441	P.C.BOARD	1		
	12	QGA2001F1-06	6P PLUG ASSY	1		
	13	QSW0506-001	LEAF SWITCH	1		
	14	E75832-221SS	SPECIAL SCREW	1		

Cassette mechanism assembly and parts list

Block No. M 4 M M

SLC-W6M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Cassette switch board
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Cassette switch board
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Head amplifier & mechanism control board
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45

■ Parts list (Cassette mechanism)

Block No. M4MM

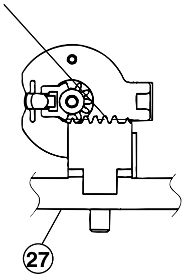
⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	1	VKS1165-00H	CHASSIS B.ASS'Y	2		
	2	VKH5786-002	SHAFT	2		
	3	VKS5603-00D	MAIN PULLEY ASY	2		
	4	VKS3785-001MM	FR ARM	2		
	5	VKW5284-002	SWING SPRING	2		
	6	VKS2278-003	TRIGGER ARM	2		
	7	VKW5301-001	FR SPRING	2		
	8	VKW5266-001	ELEVATOR SPRING	2		
	9	WDL214025	WASHER	2		
	10	VKF3205-00B	F.WHEEL ASSY(R)	2		
	11	WDL183425	SLIT WASHER	2		
	12	VKF3207-00B	F.WHEEL ASSY(L)	2		
	13	WDL173525-6	SLIT WASHER	2		
	14	VKZ3174-00A	DC SOLENOID	2		
	15	VKB3000-182	CAPSTAN BELT(B)	2		
	16	MSI-5U2LWA	D.C.MOTOR ASS'Y	1		
	17	VKR4761-001	MOTOR PULLEY	1		
	18	QYSPSP2604Z	SCREW	2		
	19	VKM3907-001	JOINT BRACKET	1		
	20	QYSBSF2608Z	T.SCREW	6		
	21	LV41090-001A	P.B.HEAD	1		
	22	LV41089-001A	R/P&E HEAD	1		
	23	VKW5302-001	HEAD SPRING	2		
	24	VKZ4730-001	SPECIAL SCREW	4		
	25	VKS2279-00D	HEAD MOUNT ASSY	1		
	26	VKW5299-002	PIN ROL.SP.(R)	2		
	27	VKS2277-005	DIRECTION LEVER	2		
	28	VKP4233-00A	PINCH ROL. ASSY	4		
	29	VKW5285-001	RETURN SPRING	2		
	30	VKS3786-00G	CLUTCH ASS'Y	2		
	31	VKS2275-00D	HEAD MOUNT ASSY	1		
	32	VKW5300-002	PIN ROL.SP.(L)	2		
	33	VKS1167-001	HEAD MOUNT BASE	2		
	34	VKS2274-002	REEL GEAR	4		
	35	VKM3906-003	PLAY SW LEVER	2		
	36	VKW5286-002	B.T. SPRING	4		
	37	VKS5559-001	PLAY IDLE GEAR	2		
	38	VKY3149-002	CASSETTE SP.	2		
	39	VKW5279-001	HEAD BASE SP(R)	2		
	40	VKW5280-001	HEAD BASE SP(L)	2		
	41	VKW5296-001	EARTH SPRING	2		
	42	VKS5597-00A	BLIND	2		
	43	VKS1166-003	CONTROL CAM	2		
	45	QYSBSF2608Z	T.SCREW	5	FOR P.W.B.	
	46	VKR4749-002	IDLE PULLEY	2		
	47	QYSBSF2006Z	SCREW	2		

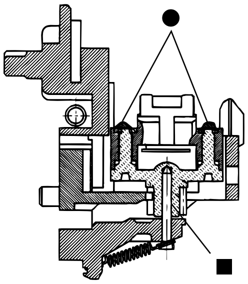
Grease point

Grease

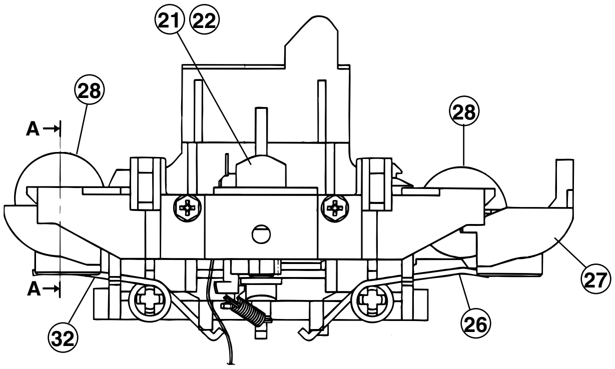
★ =JC-525
■ =FL-7750
▲ =UD-24
△ =UD-24H2
● =LX-1349B
◎ =MOBIL-1

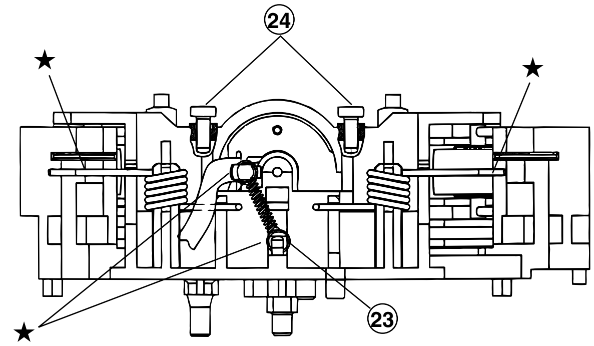
Should be applied to the rack
★ of dir.lever fully.



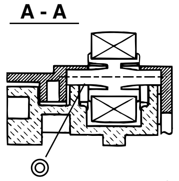


Between head holder
and shaft.

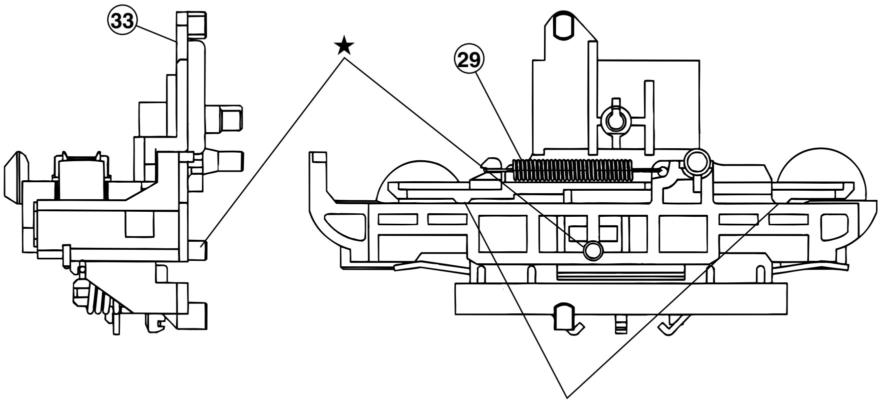




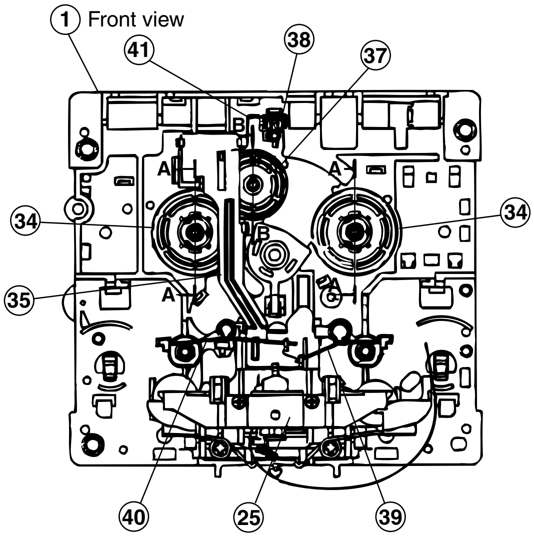
Between head holder and spring's hook.

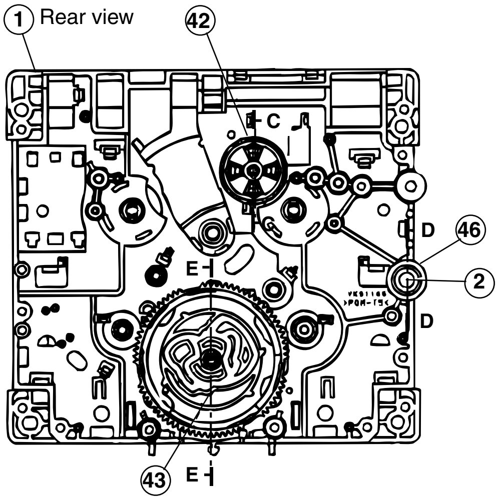


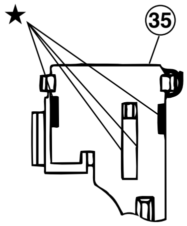
Apply oil to the shaft of pinch roller
on both sides before assembly.

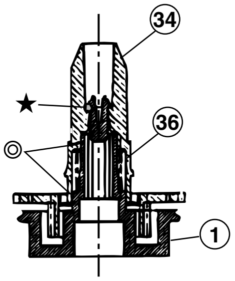


★ Between direction lever and head mount base.

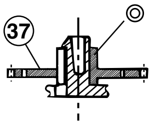

① Front view
(41)
(38)
(37)
(34)
(34)
(35)
(40)
(25)
(39)
A
A
A
A
B
B


① Rear view
(42)
C
(46)
D
②
D
E
(43)
E
VKS1168
>POM-T5<

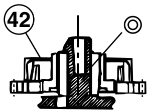




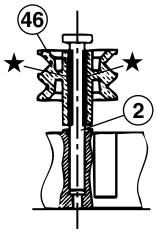
A - A (2/1, 2 places)



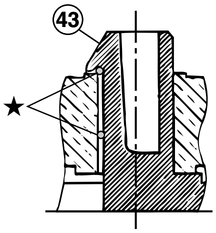
B - B (2/1)



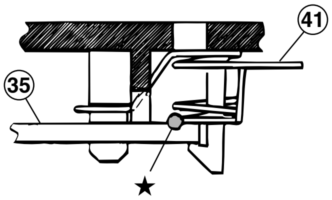
C - C (2/1)

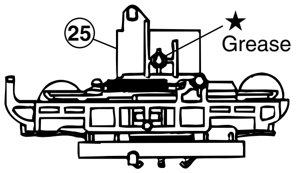


D - D (2/1)

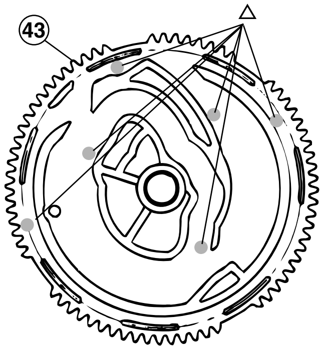


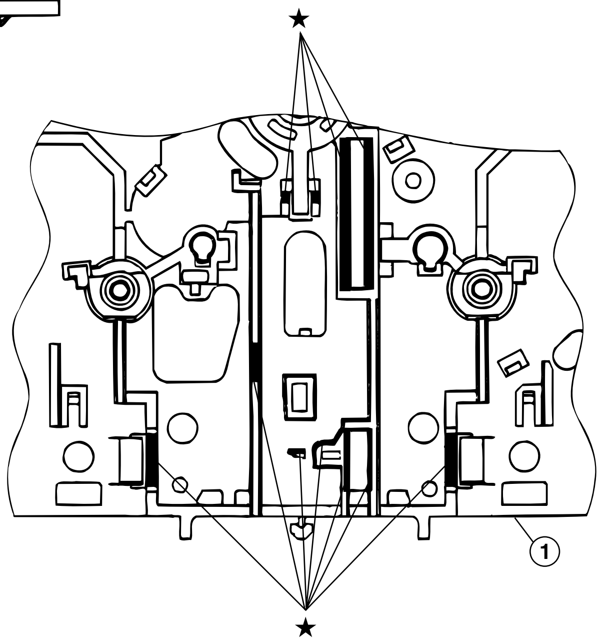
E - E (5/1)

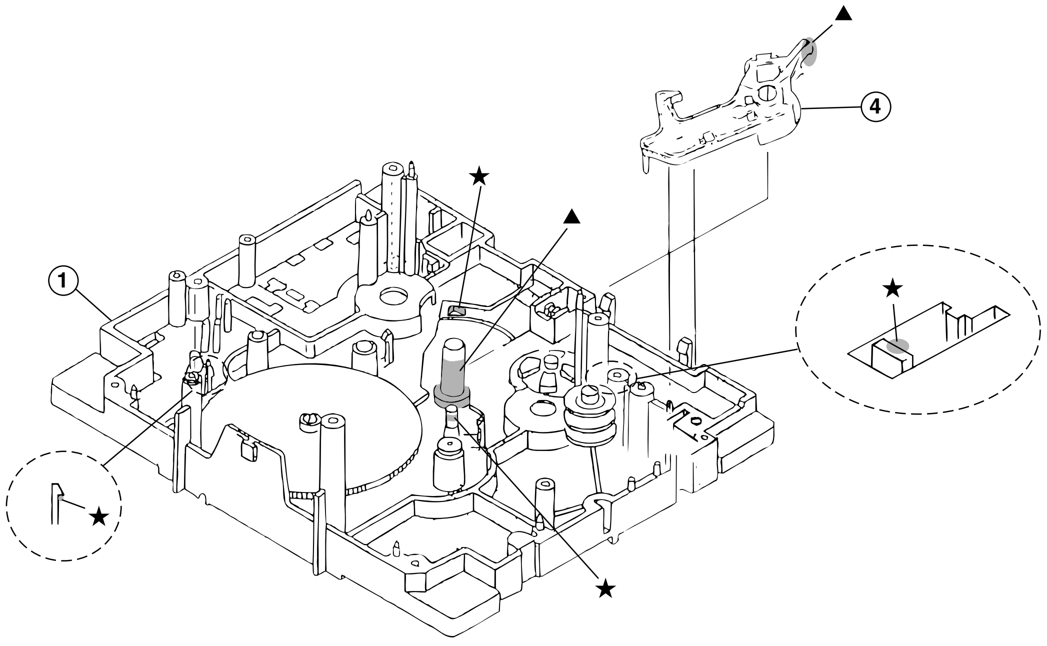


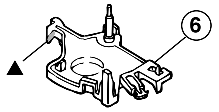


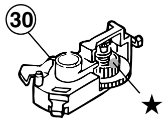
Grease appllying on boss.

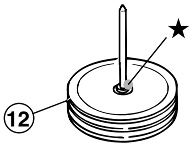


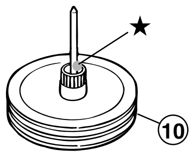


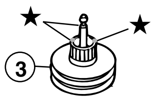

▲
4
★
▲
1
★
★
★

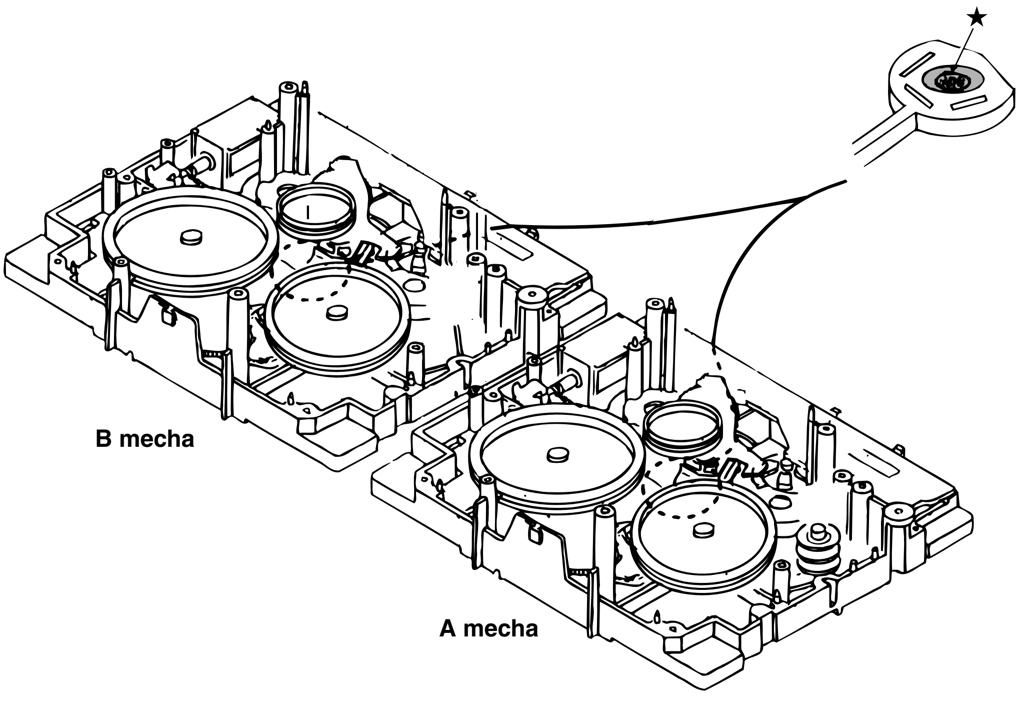

6
▲


30
★


★
12


★
10


★
★
3


★
B mecha
A mecha

■ Electrical parts list (Power AMP board)

Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
	C 201	QFV72AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 202	QFV72AJ-104Z	M CAPACITOR	.10MF 5% 100V	
	C 203	QFV72AJ-104Z	M CAPACITOR	.10MF 5% 100V	
⚠	C 204	QEZ0461-478	E CAPACITOR	4700MF	
⚠	C 205	QEZ0461-478	E CAPACITOR	4700MF	
	C 211	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 212	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 213	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
⚠	C 214	QETM1VM-228	E CAPACITOR	2200MF 20% 35V	
⚠	C 215	QETM1VM-228	E CAPACITOR	2200MF 20% 35V	
	C 216	QETN1VM-107Z	E CAPACITOR	100MF 20% 35V	
	C 217	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C 218	EETC1HM-226ZJC	E CAPACITOR		
	C 219	QDYB1CM-103Y	C CAPACITOR		
	C 220	EETC1HM-226ZJC	E CAPACITOR		
	C 221	EETC1HM-475ZJC	E CAPACITOR		
	C 222	EETC1HM-475ZJC	E CAPACITOR		
	C 223	EETC1HM-105ZJC	E CAPACITOR		
	C 224	EETC1HM-105ZJC	E CAPACITOR		
	C 233	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 238	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	C
	C 238	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	B,E,EN,EV
	C 239	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	B,E,EN,EV
	C 239	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	C
	C 253	QETM1EM-338	E CAPACITOR	3300MF 20% 25V	
	C 360	EETC1EM-226ZJC	E CAPACITOR		
	C 361	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 362	EETC1EM-226ZJC	E CAPACITOR		
	C 366	EETC1EM-226ZJC	E CAPACITOR		
	C 367	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 368	EETC1EM-226ZJC	E CAPACITOR		
	C 369	EETC1EM-226ZJC	E CAPACITOR		
	C 370	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 371	EETC1EM-226ZJC	E CAPACITOR		
	C 372	EETC1EM-226ZJC	E CAPACITOR		
	C 373	QCF11HZ-103	C CAPACITOR	.010MF +80:-20%	
	C 374	EETC1EM-226ZJC	E CAPACITOR		
	C 703	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 704	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	
	C 705	QCS11HJ-220	C CAPACITOR	22PF 5% 50V	
	C 706	QCS11HJ-220	C CAPACITOR	22PF 5% 50V	
	C 707	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 708	QETN1EM-476Z	E CAPACITOR	47MF 20% 25V	
	C 709	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 710	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 711	QETN1JM-476Z	E CAPACITOR	100MF 20% 50V	
	C 712	QETN1JM-476Z	E CAPACITOR	47MF 20% 63V	
	C 713	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 713	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 714	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 714	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 715	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 715	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 716	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 716	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 717	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	J
	C 718	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	J
	C 721	QTE1V06-106Z	E CAPACITOR		
	C 722	QTE1V06-106Z	E CAPACITOR		
	C 723	QFVJ1HJ-474Z	CAPACITOR	.47MF 5% 50V	
	C 726	EETC1EM-106ZJC	E.CAPACITOR		
	C 729	EETC1CM-476ZJC	E.CAPACITOR		
	C 739	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 781	EETC1HM-225ZJC	E CAPACITOR		
	C 782	EETC1HM-225ZJC	E CAPACITOR		
	C 783	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	B,E,EN,EV
	C 783	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	J,C
	C 784	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	J,C
	C 784	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	B,E,EN,EV
	C 785	QCBB1HK-181Y	C CAPACITOR	180PF 10% 50V	
	C 786	QCBB1HK-181Y	C CAPACITOR	180PF 10% 50V	
	C 787	EETC1EM-476ZJC	E CAPACITOR		
	C 788	EETC1EM-476ZJC	E CAPACITOR		
	C 789	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 790	QCS11HJ-100	C CAPACITOR	10PF 5% 50V	
	C 791	EETC1HM-226ZJC	E CAPACITOR		
	C 792	EETC1HM-226ZJC	E CAPACITOR		
	C 793	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 793	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 794	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 794	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 795	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 795	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 796	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	B,E,EN,EV
	C 796	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	C
	C 797	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	J
	C 798	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	J
	C 799	QDYB1CM-103Y	C CAPACITOR		J,C
	C 799	QFLM1HJ-103Z	C CAPACITOR	.010MF 5% 50V	B,E,EN,EV
	CN102	QGB2510J1-10	CONNECTOR		
	CN103	QGB2501J1-11	B TO B CONNE		
	CN104	QGB2501J1-06	B TO B CONNE		
	CN105	QGB2510J1-11	CONNECTOR		
	CN106	QGB2501K2-10	B TO B CONNE		
	CN107	QGB2501K2-07	B TO B CONNE		
	CN109	QGA3901C1-05	5P CONNECTOR		
	CN111	QGD2501C1-04Z	SOCKET		
	CN112	QGB2510K2-10	CONNECTOR		
	CN113	QGB2501K2-11	B TO B CONNE	TO FMH-001-2	
	CN114	QGB2501K2-06	B TO B CONNE	TO FMH-001-2	
	CN119	EWS285-202V	SKT WIRE		
	CN120	QGA2501C4-03	CONNECTOR		
	CN703	QGB2510K2-06	CONNECTOR	TO CONN. BOARD	
	CN704	QGB2510K2-05	CONNECTOR	TO CONN. BOARD	
	CN713	QGB2510J1-06	CONNECTOR		
	CN714	QGB2510J1-05	CONNECTOR		
	CN915	QGD2501C1-04Z	SOCKET	FOR H/PHONE FW	
⚠	D 201	1N5402M-20	DIODE		
⚠	D 202	1N5402M-20	DIODE		
⚠	D 203	1N5402M-20	DIODE		
⚠	D 204	1N5402M-20	DIODE		
⚠	D 211	30DF2-FC	DIODE		
⚠	D 212	30DF2-FC	DIODE		
⚠	D 213	30DF2-FC	DIODE		
⚠	D 214	30DF2-FC	DIODE		
⚠	D 217	1SR35-400A-T5	DIODE		
⚠	D 218	1SR35-400A-T5	DIODE		
	D 219	MTZJ33C-T2	Z DIODE		
	D 220	MTZJ9.1C-T2	Z DIODE		
	D 221	MTZJ5.1B-T2	ZENER DIODE		
	D 223	1SS133-T2	SI DIODE		
	D 224	1SS133-T2	SI DIODE		
	D 225	1SS133-T2	SI DIODE		
⚠	D 227	1SR35-400A-T5	DIODE		
⚠	D 231	RN1Z-F1	SI DIODE		
⚠	D 232	RN1Z-F1	SI DIODE		

■ Electrical parts list (Power AMP board)

Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
⚠	D 233	RN1Z-F1	SI DIODE		
⚠	D 234	RN1Z-F1	SI DIODE		
	D 245	1SS133-T2	SI DIODE		
	D 360	MTZJ5.1B-T2	ZENER DIODE		
	D 361	MTZJ11C-T2	Z DIODE		
	D 362	MTZJ6.8C-T2	Z DIODE		
	D 365	MTZJ9.1B-T2	ZENER DIODE		
	D 366	MTZJ11C-T2	ZENER DIODE		
	D 367	MTZJ10C-T2	Z.DIODE		
	D 368	MTZJ11C-T2	Z.DIODE		
	D 369	MTZJ10C-T2	Z.DIODE		
	D 370	MTZJ11C-T2	Z.DIODE	SHORT TEST	
	D 703	MTZJ8.2C-T2	ZENER DIODE		
	D 704	MTZJ8.2C-T2	ZENER DIODE		
	D 719	1SS133-T2	SI DIODE		
	D 720	1SS133-T2	SI DIODE		
	D 721	MTZJ8.2C-T2	ZENER DIODE		
	D 722	MTZJ8.2C-T2	ZENER DIODE		
	D 723	MTZJ33C-T2	Z DIODE		
	D 724	MTZJ33C-T2	Z DIODE		
	D 728	1SS133-T2	SI DIODE		
	D 789	1SS133-T2	SI DIODE		
	D 790	1SS133-T2	SI DIODE		
	EP201	E409182-001SM	GRAND TERMINAL		
	FT111	QNG0020-001Z	FUSE CLIP		
	FT112	QNG0020-001Z	FUSE CLIP		
	FT511	QNG0020-001Z	FUSE CLIP		
	FT512	QNG0020-001Z	FUSE CLIP		
	FT521	QNG0020-001Z	FUSE CLIP		
	FT522	QNG0020-001Z	FUSE CLIP		
	FW101	QUM134-12DGZ4	FLAT WIRE		
	FW411	QUM137-13DGZ4	FLAT WIRE		
	IC701	STK411-210E	IC		
	IC781	TDA7295	IC		
	IC782	TDA7295	IC		
	L 201	QQR0779-001Z	INDUCTOR		B,E,EN,EV
	L 201	QQR0779-001Z	INDUCTOR		C
	L 701	QQLZ005-R45	INDUCTOR		
	L 702	QQLZ005-R45	INDUCTOR		
	L 781	QQLZ005-R45	INDUCTOR		
	L 782	QQLZ005-R45	INDUCTOR		
	Q 201	2SB1274/RS/	TRANSISTOR		
	Q 203	KRC107M-T	D.TRANSISTOR		
	Q 204	KRC107M-T	D.TRANSISTOR		
	Q 205	KRC107M-T	D.TRANSISTOR		
	Q 240	KTC3199/GL/-T	TRANSISTOR		
	Q 241	KTC3199/GL/-T	TRANSISTOR		
	Q 242	KTC3199/GL/-T	TRANSISTOR		
	Q 360	2SD2394/EF/	TRANSISTOR		B,E,EN,EV
⚠	Q 360	2SD2061/EF/	TRANSISTOR		J,C
	Q 361	KTC3199/GL/-T	TRANSISTOR		
	Q 362	KTC3199/GL/-T	TRANSISTOR		
⚠	Q 365	2SD2394/EF/	TRANSISTOR		B,E,EN,EV
⚠	Q 365	2SD2061/EF/	SI.TRANSISTOR		J,C
⚠	Q 366	2SD2061/EF/	SI.TRANSISTOR		J,C
⚠	Q 366	2SD2394/EF/	TRANSISTOR		B,E,EN,EV
	Q 367	KTA1267/YG/-T	TRANSISTOR		
	Q 368	KTC3199/GL/-T	TRANSISTOR		
⚠	Q 369	2SD2394/EF/	TRANSISTOR		B,E,EN,EV
⚠	Q 369	2SD2061/EF/	SI.TRANSISTOR		J,C
	Q 370	KTC3199/GL/-T	TRANSISTOR		
⚠	Q 371	2SB1565/EF/	TRANSISTOR		
	Q 373	KRA104M-T	D.TRANSISTOR		
	Q 374	KRC104M-T	D.TRANSISTOR		
	Q 375	KRC104M-T	D.TRANSISTOR		
	Q 376	KRA104M-T	D.TRANSISTOR		
	Q 701	2SA1038S/SE/-T	TRANSISTOR		
	Q 702	2SA1038S/SE/-T	TRANSISTOR		
	Q 726	2SC2389S/SE/-T	TRANSISTOR		
	Q 727	2SA1038S/SE/-T	TRANSISTOR		
	Q 728	KTC3199/GL/-T	TRANSISTOR		
	Q 733	2SC3576-JVC-T	TRANSISTOR		
	Q 734	2SC3576-JVC-T	TRANSISTOR		
	Q 735	2SC3576-JVC-T	TRANSISTOR		
	Q 736	2SC3576-JVC-T	TRANSISTOR		
	Q 737	KRA111M-T	D.TRANSISTOR		
	Q 758	2SA1038S/S/-T	TRANSISTOR		
	Q 781	2SA1038S/SE/-T	TRANSISTOR		
	Q 782	2SA1038S/SE/-T	TRANSISTOR		
⚠	R 202	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	J
	R 203	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 204	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 205	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 209	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 210	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 211	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R 215	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 216	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 238	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	C
	R 238	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	B,E,EN,EV
	R 239	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	B,E,EN,EV
	R 239	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	C
	R 242	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 245	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 246	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 247	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 290	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 291	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 292	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 293	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 294	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 295	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 296	QRT01DJ-R22X	UNF.MF.RESISTOR	5% 1/1W	
	R 299	QRL012J-332	UNF.OMF.RES.	3.3K 5% 1/1W	
⚠	R 360	QRZ9042-2R2X	F RESISTOR	2.2 1/0W	C
⚠	R 360	QRZ9042-2R2X	F RESISTOR	2.2 1/0W	B,E,EN,EV
⚠	R 361	QRZ9006-4R7X	F RESISTOR	4.7 1/0W	B,E,EN,EV
⚠	R 361	QRZ9042-2R2X	F RESISTOR	2.2 1/0W	C
	R 362	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 363	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 364	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 365	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 366	QRE141J-561Y	C RESISTOR	560 5% 1/4W	
	R 367	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 368	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 371	QRE141J-4R7Y	C RESISTOR	4.7 5% 1/4W	
	R 372	QRE141J-4R7Y	C RESISTOR	4.7 5% 1/4W	
⚠	R 373	QRZ9021-220	FUSI RESISTOR	22 1/0W	C
⚠	R 373	QRZ9021-220	FUSI.RESISTOR	22 1/0W	B,E,EN,EV
⚠	R 374	QRZ9021-220	FUSI.RESISTOR	22 1/0W	B,E,EN,EV
⚠	R 374	QRZ9021-220	FUSI RESISTOR	22 1/0W	C
⚠	R 374	QRL022J-220	O.M.F.RESISTOR	22 5% 1/2W	J
⚠	R 375	QRZ9021-220	FUSI.RESISTOR	22 1/0W	B,E,EN,EV
⚠	R 375	QRZ9021-220	FUSI.RESISTOR	22 1/0W	C
⚠	R 375	QRL022J-220	UNF.OMF.RES.	22 5% 1/2W	J
	R 376	QRE141J-221Y	C RESISTOR	220 5% 1/4W	

■ Electrical parts list (Power AMP board)

Block No. 01

⚠	Item	Parts number	Parts name	Remarks	Area
	R 377	QRE141J-681Y	C RESISTOR	680 5% 1/4W	
	R 378	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R 379	QRL022J-220	UNF.OMF.RES.	22 5% 1/2W	J
	R 380	QRL022J-220	UNF.OMF.RES.	22 5% 1/2W	J
	R 381	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 382	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
⚠	R 383	QRL01DJ-150X	OMF RESISTOR	15 5% 1/1W	J
	R 384	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 385	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 388	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 389	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 390	QRL022J-220	UNF.OMF.RES.	22 5% 1/2W	J
	R 391	QRL022J-220	UNF.OMF.RES.	22 5% 1/2W	J
	R 701	QRL01DJ-101X	OMF RESISTOR	100 5% 1/1W	
	R 702	QRL01DJ-101X	OMF RESISTOR	100 5% 1/1W	
	R 703	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 704	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 705	QRJ146J-681X	UNF C.RESISTOR	680 5% 1/4W	
	R 706	QRJ146J-681X	UNF C.RESISTOR	680 5% 1/4W	
	R 707	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 708	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 709	QRT01DJ-R22X	UNF.MF.RESISTOR	5% 1/1W	
	R 710	QRT01DJ-R22X	UNF.MF.RESISTOR	5% 1/1W	
	R 711	QRT01DJ-R22X	UNF.MF.RESISTOR	5% 1/1W	
	R 712	QRT01DJ-R22X	UNF.MF.RESISTOR	5% 1/1W	
	R 713	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 714	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 715	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 716	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 717	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 718	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 719	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 720	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 721	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 722	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 723	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 724	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 725	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 726	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 727	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 728	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 729	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 730	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 733	QRE141J-472Y	C RESISTOR	47K 5% 1/4W	
	R 734	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 735	QRE141J-472Y	C RESISTOR	47K 5% 1/4W	
	R 736	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 739	QRL01DJ-821X	OMF RESISTOR	820 5% 1/1W	
	R 740	QRL01DJ-821X	OMF RESISTOR	820 5% 1/1W	
	R 741	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 742	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 743	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 744	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 745	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 746	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 747	QRE141J-823Y	C RESISTOR	82K 5% 1/4W	
	R 748	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 749	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 750	QRE141J-471Y	C RESISTOR	470 5% 1/4W	
	R 751	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 752	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 766	QRE141J-333Y	C RESISTOR	33K 5% 1/4W	
	R 767	QRE141J-683Y	C RESISTOR	68K 5% 1/4W	
	R 771	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 772	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 774	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 775	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 776	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 783	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 784	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 785	QRJ146J-182X	C RESISTOR	1.8K 5% 1/4W	
	R 786	QRJ146J-182X	UNF C.RESISTOR	1.8K 5% 1/4W	
	R 787	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 788	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 789	QRT01DJ-R22X	UNF.MF.RES.I.M	5% 1/1W	
	R 790	QRT01DJ-R22X	UNF.MF.RES.I.M	5% 1/1W	
	R 791	QRT01DJ-R22X	UNF.MF.RES.I.M	5% 1/1W	
	R 792	QRT01DJ-R22X	UNF.MF.RES.I.M	5% 1/1W	
	R 793	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 794	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 795	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 796	QRJ146J-100X	UNF.C RESISTOR	10 5% 1/4W	
	R 797	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 798	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R1001	QRZ9044-335	C RESISTOR	3.3M 1/0W	J,C
	SP200	E3400-439	FELT SPACER		
	TB101	QNZ0079-001Z	TAB		
	TB102	QNZ0079-001Z	TAB		
	TH202	QAD0095-4R7Z	P.THERMISTOR		B,E,EN,EV
	TH202	QAD0095-4R7Z	POSISTOR		C
	TW120	WJK0040-001A	E-SI C WIRE C-B		

■ Electrical parts list (Function,Tuner,Main board) Block No. 02

⚠	Item	Parts number	Parts name	Remarks	Area
	C 1	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 3	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 4	QDYB1CM-103Y	C CAPACITOR		
	C 5	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	B,E,EN,EV
	C 5	EETC1CM-476ZJC	E CAPACITOR		J,C
	C 8	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	B,E,EN,EV
	C 9	QDXB1CM-272Y	C CAPACITOR		B,E,EN,EV
	C 10	EETC1HM-474ZJC	E CAPACITOR		
	C 12	QCSB1HJ-100Y	C CAPACITOR	10PF 5% 50V	J,C
	C 12	QCSB1HJ-150Y	C CAPACITOR	15PF 5% 50V	B,E,EN,EV
	C 13	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 14	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 15	QCBB1HK-391Y	C CAPACITOR	390PF 10% 50V	B,E,EN,EV
	C 18	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	J,C
	C 18	QDXB1CM-152Y	C CAPACITOR		B,E,EN,EV
	C 19	QCBB1HK-471Y	C CAPACITOR	470PF 10% 50V	J,C
	C 19	QDXB1CM-152Y	C CAPACITOR		B,E,EN,EV
	C 20	EETC1HM-226ZJC	E CAPACITOR		
	C 21	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 22	QFVJ1HJ-274Z	CAPACITOR	.27MF 5% 50V	
	C 23	EETC1HM-105ZJC	E CAPACITOR		
	C 24	EETC1HM-226ZJC	E CAPACITOR		
	C 25	QFLM1HJ-223Z	C CAPACITOR	.022MF 5% 50V	B,E,EN,EV
	C 25	QFLM1HJ-273Z	C CAPACITOR	.027MF 5% 50V	J,C
	C 26	EETC1EM-106ZJC	E CAPACITOR		
	C 27	EETC1HM-105ZJC	E CAPACITOR		
	C 28	EETC1HM-105ZJC	E CAPACITOR		
	C 29	QFLM1HJ-182Z	M CAPACITOR	1800PF 5% 50V	B,E,EN,EV
	C 29	QFLM1HJ-222Z	M CAPACITOR	2200PF 5% 50V	J,C
	C 30	QFLM1HJ-222Z	M CAPACITOR	2200PF 5% 50V	J,C
	C 30	QFLM1HJ-182Z	M CAPACITOR	1800PF 5% 50V	B,E,EN,EV
	C 31	QCSB1HJ-330Y	C CAPACITOR	33PF 5% 50V	B,E,EN,EV
	C 31	QCSB1HJ-560Y	C CAPACITOR	56PF 5% 50V	J,C
	C 32	QDGB1HK-102Y	C CAPACITOR		
	C 33	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 34	EETC1HM-474ZJC	E CAPACITOR		
	C 35	QDYB1CM-103Y	C CAPACITOR		
	C 36	EETC1HM-105ZJC	E CAPACITOR		
	C 37	EETC1HM-474ZJC	E CAPACITOR		
	C 38	EETC1HM-105ZJC	E CAPACITOR		
	C 39	QCBB1HK-223Y	C CAPACITOR	.022MF 10% 50V	
	C 40	QETN1EM-107Z	E CAPACITOR	100MF 20% 25V	
	C 41	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 42	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 43	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 44	QDGB1HK-102Y	C CAPACITOR		J,C
	C 51	EETC1HM-105ZJC	E CAPACITOR		
	C 52	EETC1HM-105ZJC	E CAPACITOR		
	C 60	QEKC1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 61	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	
	C 62	QCSB1HJ-120Y	C CAPACITOR	12PF 5% 50V	
	C 63	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	
	C 65	QDGB1HK-102Y	C CAPACITOR		
	C 66	QCBB1HK-151Y	C CAPACITOR	150PF 10% 50V	
	C 67	QCSB1HJ-270Y	C CAPACITOR	27PF 5% 50V	
	C 68	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 69	QFVJ1HJ-105Z	TF.CAPACITOR	1.0MF 5% 50V	
	C 70	QDXB1CM-392Y	C CAPACITOR		
	C 71	EETC1CM-476ZJC	E CAPACITOR		
	C 72	QDGB1HK-102Y	C CAPACITOR		
	C 80	QCBB1HK-820Y	C CAPACITOR	82PF 10% 50V	B,E,EN,EV
	C 81	QCSB1HJ-470Y	C CAPACITOR	47PF 5% 50V	B,E,EN,EV
	C 82	EETC1CM-106ZJC	E CAPACITOR		B,E,EN,EV
	C 83	QCBB1HK-473Y	C CAPACITOR	.047MF 10% 50V	B,E,EN,EV
	C 84	EETC1HM-225ZJC	E CAPACITOR		B,E,EN,EV
	C 85	QCBB1HK-331Y	C CAPACITOR	330PF 10% 50V	B,E,EN,EV
	C 86	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	B,E,EN,EV
	C 89	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C 90	QDYB1CM-103Y	C CAPACITOR		B,E,EN,EV
	C 98	QCSB1HJ-100Y	C CAPACITOR	10PF 5% 50V	B,E,EN,EV
	C 360	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 361	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 365	QETN1CM-227Z	E CAPACITOR	220MF 20% 16V	
	C 366	QETN1AM-108Z	E CAPACITOR	1000MF 20% 10V	
	C 372	EETC1HM-475ZJC	E CAPACITOR		
	C 373	QDYB1CM-103Y	C CAPACITOR		
	C 380	EETC1HM-224ZJC	E CAPACITOR		
	C 381	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	
	C 382	QCFB1HZ-104Y	C CAPACITOR	.10MF +80:-20%	
	C 383	EETC1EM-476ZJC	E CAPACITOR		
	C 385	EETC1HM-105ZJC	E CAPACITOR		
	C 386	QDGB1HK-681Y	C CAPACITOR		
	C 387	QFLM1HJ-153Z	M CAPACITOR	.015MF 5% 50V	
	C 388	QDXB1CM-182Y	C CAPACITOR		
	C 389	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 390	EETC1HM-224ZJC	E CAPACITOR		
	C 398	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
	C 399	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	
⚠	C 401	QFLM1HJ-222Z	M CAPACITOR	2200PF 5% 50V	
⚠	C 402	QFLM1HJ-222Z	M CAPACITOR	2200PF 5% 50V	
	C 403	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
	C 404	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
	C 407	QTE1V06-106Z	E CAPACITOR		
	C 408	QTE1V06-106Z	E CAPACITOR		
	C 411	EETC1EM-106ZJC	E CAPACITOR		
	C 412	EETC1EM-106ZJC	E CAPACITOR		
	C 413	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 414	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 415	EETC1EM-106ZJC	E CAPACITOR		
	C 416	EETC1EM-106ZJC	E CAPACITOR		
	C 417	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 418	QEKC1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 419	EETC1EM-106ZJC	E CAPACITOR		
	C 420	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 421	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 422	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 423	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 424	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 425	QFLM1HJ-183Z	M CAPACITOR	.018MF 5% 50V	
	C 426	QFLM1HJ-183Z	M CAPACITOR	.018MF 5% 50V	
	C 427	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 428	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 429	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 430	QFLM1HJ-562Z	M CAPACITOR	5600PF 5% 50V	
	C 431	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 432	QETN1HM-225Z	E CAPACITOR	2.2MF 20% 50V	
	C 433	QTE1H39-225Z	E CAPACITOR		
	C 434	QTE1H39-225Z	E CAPACITOR		
	C 435	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C 436	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C 445	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 446	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	
	C 447	QTE1C39-106Z	E CAPACITOR		
	C 448	QTE1C39-106Z	E CAPACITOR		
	C 453	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	B,E,EN,EV
	C 455	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	B,E,EN,EV

■ Electrical parts list (Function,Tuner,Main board)

Block No. 02

⚠	Item	Parts number	Parts name	Remarks	Area
	C 457	QTE1V06-106Z	E CAPACITOR		
	C 458	QTE1V06-106Z	E CAPACITOR		
	C 459	QFLM1HJ-333Z	M CAPACITOR	.033MF 5% 50V	
	C 460	EETC1HM-475ZJC	E CAPACITOR		
	C 461	EETC1HM-474ZJC	E CAPACITOR		
	C 462	QFLM1HJ-393Z	M CAPACITOR	.039MF 5% 50V	
	C 463	EETC1HM-475ZJC	E CAPACITOR		
	C 464	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 465	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 466	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 467	EETC1HM-105ZJC	E CAPACITOR		
	C 468	EETC1EM-476ZJC	E CAPACITOR		
	C 477	EETC1HM-475ZJC	E CAPACITOR		
	C 481	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C 481	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	J,C
	C 482	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	J,C
	C 482	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C 483	QDXB1CM-222Y	C CAPACITOR		B,E,EN,EV
	C 483	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	J,C
	C 484	QDXB1CM-222Y	C CAPACITOR		B,E,EN,EV
	C 484	QCBB1HK-101Y	C CAPACITOR	100PF 10% 50V	J,C
	C 485	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 489	EETC1CM-476ZJC	E CAPACITOR		
	C 490	EETC1CM-476ZJC	E CAPACITOR		
	C 493	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 494	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 495	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 496	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 501	QTE1V06-106Z	E CAPACITOR		
	C 502	QTE1V06-106Z	E CAPACITOR		
	C 503	QFLM1HJ-223Z	M CAPACITOR	.022MF 5% 50V	
	C 504	QFLM1HJ-473Z	M CAPACITOR	.047MF 5% 50V	
	C 505	QETN0JM-227Z	E CAPACITOR	220MF 20% 6.3V	
	C 506	EETC1EM-106ZJC	E CAPACITOR		
	C 507	EETC1EM-106ZJC	E CAPACITOR		
	C 508	EETC1EM-106ZJC	E CAPACITOR		
	C 509	EETC1EM-106ZJC	E CAPACITOR		
	C 510	QETN0JM-227Z	E CAPACITOR	220MF 20% 6.3V	
	C 511	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 512	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 513	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C 514	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
⚠	C 515	QEKC1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 516	QEKC1HM-474Z	E CAPACITOR	.47MF 20% 50V	
	C 517	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 518	QEKC1HM-475Z	E CAPACITOR	4.7MF 20% 50V	
	C 519	EETC1HM-474ZJC	E CAPACITOR		
	C 520	EETC1HM-474ZJC	E CAPACITOR		
	C 521	EETC1HM-475ZJC	E CAPACITOR		
	C 522	EETC1HM-475ZJC	E CAPACITOR		
	C 523	QFVJ1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 524	QFVJ1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 525	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 526	QETN1HM-335Z	E CAPACITOR	3.3MF 20% 50V	
	C 527	QFVJ1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 528	QFVJ1HJ-154Z	TF CAPACITOR	.15MF 5% 50V	
	C 529	QFVJ1HJ-474Z	CAPACITOR	.47MF 5% 50V	
	C 530	EETC1EM-476ZJC	E CAPACITOR		
	C 531	QETN1AM-227Z	E CAPACITOR	220MF 20% 10V	
	C 532	QDGB1HK-681Y	C CAPACITOR		
	C 533	QCS11HJ-470	C CAPACITOR	47PF 5% 50V	
	C 535	QCBB1HK-561Y	C CAPACITOR	560PF 10% 50V	
	C 536	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 541	EETC1HM-225ZJC	E CAPACITOR		
	C 542	QETN1AM-227Z	E CAPACITOR	220MF 20% 10V	
⚠	C 543	QCZ0205-155Z	C CAPACITOR	1.5MF	
	C 544	EETC1HM-474ZJC	E CAPACITOR		
	C 545	EETC1HM-474ZJC	E CAPACITOR		
	C 546	QFLM1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C 547	QCB31HK-332Z	C CAPACITOR	3300PF 10% 50V	
	C 548	QFLM1HJ-823Z	M CAPACITOR	.082MF 5% 50V	
	C 549	QETN0JM-227Z	E CAPACITOR	220MF 20% 6.3V	
	C 550	QCF11HZ-473	C CAPACITOR	.047MF +80:-20%	
	C 551	QCS11HJ-300	C CAPACITOR	30PF 5% 50V	
	C 552	QCS11HJ-300	C CAPACITOR	30PF 5% 50V	
⚠	C 553	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
⚠	C 554	QETN1EM-106Z	E CAPACITOR	10MF 20% 25V	
	C 555	EETC1EM-106ZJC	E CAPACITOR		
	C 556	EETC1EM-106ZJC	E CAPACITOR		
	C 561	EETC1HM-225ZJC	E CAPACITOR		
	C 562	EETC1HM-225ZJC	E CAPACITOR		
	C 563	EETC1HM-105ZJC	E CAPACITOR		
	C 564	EETC1HM-105ZJC	E CAPACITOR		
	C 565	EETC1EM-106ZJC	E CAPACITOR		
	C 566	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 580	QDX31EM-473Z	C CAPACITOR		
⚠	C 581	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
⚠	C 581	QDYB1CM-103Y	C CAPACITOR		J,C
⚠	C 582	QDYB1CM-103Y	C CAPACITOR		J,C
⚠	C 582	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C 583	QFLM1HJ-103Z	M CAPACITOR	.010MF 5% 50V	B,E,EN,EV
⚠	C 584	QCS31HJ-391Z	C CAPACITOR	390PF 5% 50V	B,E,EN,EV
⚠	C 586	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	B,E,EN,EV
	C 587	EETC1EM-106ZJC	E CAPACITOR		
	C 589	QDYB1CM-103Y	C CAPACITOR		
	CF 1	QAX0419-001Z	C FILTER		J,C
	CF 1	QAX0420-001	C FILTER		B,E,EN,EV
	CF 2	QAX0419-001Z	C FILTER		J,C
	CF 2	QAX0421-001	C FILTER		B,E,EN,EV
	CF 3	QAX0519-001Z	C FILTER		
	CN410	QGF1016F1-19	CONNECTOR		
	CN411	QGF1201C3-21	FFC/FPC CONNE		
	CN412	QGF1201C3-21	FFC/FPC CONNE		
	CN413	QGF1201C3-17	VMC0332-017		
	CN414	QGD2501C1-03Z	SOCKET		
	CN415	QGD2501C1-04Z	SOCKET		
	CN416	QGB2501J1-10	B TO B CONNE		
	CN417	QGB2501J1-07	B TO B CONNE		
	CP403	ICP-N15-T	ICP		J
	D 1	1SS133-T2	SI DIODE		
	D 2	1SS133-T2	SI DIODE		
	D 3	1SS133-T2	SI DIODE		
	D 4	1SS133-T2	SI DIODE		
	D 5	MTZJ5.6B-T2	ZENER DIODE		
	D 6	MTZJ5.6B-T2	ZENER DIODE		B,E,EN,EV
	D 8	1SS133-T2	SI DIODE		
	D 303	1SS133-T2	SI DIODE		
	D 305	1SS133-T2	SI DIODE		
	D 306	1SS133-T2	SI DIODE		
	D 307	1SS133-T2	SI DIODE		
	D 403	1SR35-100A-T5	SI DIODE		
	D 481	1SS133-T2	SI DIODE		
	D 482	1SS133-T2	SI DIODE		
	D 483	1SS133-T2	SI DIODE		
	D 484	1SS133-T2	SI DIODE		
	D 485	1SS133-T2	SI DIODE		

■ Electrical parts list (Function,Tuner,Main board) Block No. 02

⚠	Item	Parts number	Parts name	Remarks	Area
	D 486	RB721Q-T2	S.B.DIODE		
	D 487	RB721Q-T2	S.B.DIODE		
	D 501	MTZJ5.1B-T2	ZENER DIODE		
	D 561	1SS133-T2	SI DIODE		
	EP001	E409182-001SM	GRAND TERMINAL		
	IC 1	LA1838	IC		
	IC 2	LC72136N	IC		
	IC 4	BU1923	IC		B,E,EN,EV
	IC401	TDA7439	IC		
	IC402	BA15218	IC		
	IC405	BA15218	IC		
	IC406	LA2650	IC		
	IC501	LV1035M	IC		
	IC542	BA3835S	IC		
	IC561	TDA7439	IC		
	J 1	QNB0014-001	ANT TERMINAL		B,E,EN,EV
	J 1	QNB0008-001	ANT TERMINAL		J,C
	J 401	QNN0132-001	PIN JACK		
	J 499	GP1F32T	OPTICAL JACK		
	L 1	QQR0796-001	COIL BLOCK		J,C
	L 1	QQR0884-001	COIL BLOCK		B,E,EN,EV
	L 4	QQL231K-221Y	INDUCTOR		
	L 5	QQL231K-101Y	INDUCTOR		B,E,EN,EV
	L 11	QQL231K-2R7Y	INDUCTOR		B,E,EN,EV
	L 12	QQL231K-330Y	INDUCTOR		B,E,EN,EV
	L 403	QQR0779-001Z	INDUCTOR		B,E,EN,EV
	L 405	QQR0779-001Z	INDUCTOR		B,E,EN,EV
	L 406	QQR0779-001Z	INDUCTOR		B,E,EN,EV
	Q 1	2SC2668/O/-T	TRANSISTOR		
	Q 2	KRA107M-T	D.TRANSISTOR		B,E,EN,EV
	Q 3	KTC3199/GL/-T	TRANSISTOR		B,E,EN,EV
	Q 4	KTC3199/GL/-T	TRANSISTOR		B,E,EN,EV
	Q 6	KRA107M-T	D.TRANSISTOR		
	Q 14	2SA1175/HFE/-T	TRANSISTOR		B,E,EN,EV
	Q 401	2SC3576-JVC-T	TRANSISTOR		
	Q 402	2SC3576-JVC-T	TRANSISTOR		
	Q 403	KRA102M-T	D.TRANSISTOR		
	Q 405	2SC3576-JVC-T	TRANSISTOR		
	Q 406	2SC3576-JVC-T	TRANSISTOR		
	Q 407	2SA1175/HFE/-T	TRANSISTOR		
	Q 408	KTC3199/GL/-T	TRANSISTOR		
	Q 409	KRC114M-T	TRANSISTOR		
	Q 410	KTC3199/GL/-T	TRANSISTOR		
	Q 411	KTC3199/GL/-T	TRANSISTOR		
	Q 415	2SC2235/OY/-T	TRANSISTOR		
	Q 481	2SC3576-JVC-T	TRANSISTOR		
	Q 482	2SC3576-JVC-T	TRANSISTOR		
	Q 483	KRA102M-T	D.TRANSISTOR		
	Q 501	2SC3576-JVC-T	TRANSISTOR		
	Q 502	2SC3576-JVC-T	TRANSISTOR		
	R 1	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 2	QRE141J-181Y	C RESISTOR	180 5% 1/4W	B,E,EN,EV
	R 10	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	J,C
	R 10	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	B,E,EN,EV
	R 12	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 13	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 14	QRE141J-560Y	C RESISTOR	56 5% 1/4W	J,C
	R 15	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	B,E,EN,EV
	R 16	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	B,E,EN,EV
	R 19	QRE141J-623Y	C RESISTOR	62K 5% 1/4W	J,C
	R 19	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	B,E,EN,EV
	R 20	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 21	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R 22	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 24	QRE141J-433Y	C RESISTOR	43K 5% 1/4W	
	R 25	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 26	QRE141J-273Y	C RESISTOR	27K 5% 1/4W	B,E,EN,EV
	R 26	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	J,C
	R 27	QRE141J-623Y	C RESISTOR	62K 5% 1/4W	J,C
	R 27	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	B,E,EN,EV
	R 28	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 29	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	
	R 30	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 31	QRE141J-200Y	C RESISTOR	20 5% 1/4W	
	R 32	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 33	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 34	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 35	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 36	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 37	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 43	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 44	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 45	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 46	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 47	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 48	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 49	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 52	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 54	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 55	QRE141J-182Y	C RESISTOR	1.8K 5% 1/4W	
	R 56	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 57	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 60	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	B,E,EN,EV
	R 61	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	B,E,EN,EV
	R 64	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 65	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 66	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 69	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 76	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	B,E,EN,EV
	R 80	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	B,E,EN,EV
	R 82	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	B,E,EN,EV
	R 83	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	B,E,EN,EV
	R 84	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	B,E,EN,EV
	R 91	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	B,E,EN,EV
	R 101	QRE141J-561Y	C RESISTOR	560 5% 1/4W	J,C
	R 101	QRE141J-271Y	C RESISTOR	270 5% 1/4W	B,E,EN,EV
	R 102	QRE141J-391Y	C RESISTOR	390 5% 1/4W	B,E,EN,EV
	R 360	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 362	QRE141J-221Y	C RESISTOR	220 5% 1/4W	B,E,EN,EV
	R 363	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 370	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 371	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 372	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 375	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 376	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 378	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 383	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 384	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 386	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 387	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 388	QRE141J-220Y	C RESISTOR	22 5% 1/4W	
	R 389	QRE141J-225Y	C RESISTOR	2.2M 5% 1/4W	
	R 401	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 402	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 403	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 404	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	

■ Electrical parts list (Function,Tuner,Main board) Block No. 02

⚠	Item	Parts number	Parts name	Remarks	Area
	R 405	QRE141J-432Y	C RESISTOR	4.3K 5% 1/4W	
	R 406	QRE141J-432Y	C RESISTOR	4.3K 5% 1/4W	
	R 407	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	
	R 408	QRE141J-302Y	C RESISTOR	3.0K 5% 1/4W	
	R 413	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
	R 414	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
	R 415	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
	R 416	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
	R 417	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 418	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 419	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 420	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 421	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 422	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 433	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 434	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 435	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 436	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 437	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 438	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 439	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 440	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 441	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 442	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 445	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
	R 446	QRE141J-303Y	C RESISTOR	30K 5% 1/4W	
⚠	R 448	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 450	QRE141J-224Y	C RESISTOR	220K 5% 1/4W	
	R 459	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 460	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 461	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 462	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 463	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 464	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 465	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 469	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 470	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 471	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 472	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 473	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 481	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 482	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 483	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 484	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 485	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 486	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 493	QRE141J-203Y	C RESISTOR	20K 5% 1/4W	
	R 494	QRE141J-203Y	C RESISTOR	20K 5% 1/4W	
	R 497	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 498	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 501	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 502	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 541	QRE141J-105Y	C RESISTOR	X.TAL	
	R 542	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R 543	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 544	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 545	QRE141J-203Y	C RESISTOR	20K 5% 1/4W	
	R 546	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 547	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 548	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 549	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 553	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 554	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 555	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 556	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 557	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 558	QRE141J-473Y	C RESISTOR	47K 5% 1/4W	
	R 566	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 567	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 568	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 569	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 570	QRE141J-221Y	C RESISTOR	220 5% 1/4W	
	R 571	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 572	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 573	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 574	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 575	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 576	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 577	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 578	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 579	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 580	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 581	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 582	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 583	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 584	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 585	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 586	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 587	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 588	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 589	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 590	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 591	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 592	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 593	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 594	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 595	QRE141J-181Y	C RESISTOR	180 5% 1/4W	
	R 597	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 599	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	SP 2	E3400-431	SPACER		
	SP 3	VYSA1R4-100	SPACER		
	SP 4	VYSA1R4-100	SPACER		
	SP501	VYH7653-013	IC HOLDER		
	SP516	E3400-431	SPACER		
	SP553	E3400-431	SPACER		
	T 1	QQR0793-001	IFT		
	TH401	QAD0064-2R2Z	POSISTOR		
	TU 1	QAU0097-001	FRONT END		J,C
	TU 1	QAU0034-001	FRONT END		B,E,EN,EV
	X 1	QAX0402-001	CRYSTAL		
	X 2	QAX0263-001Z	CRYSTAL		B,E,EN,EV
	X 541	QAX0283-001Z	RESONATOR	X.TAL	

■ Electrical parts list (System control & switch board) Block No. 03

⚠	Item	Parts number	Parts name	Remarks	Area
	C 801	QFVJ1HJ-124Z	TF CAPACITOR	.12MF 5% 50V	
	C 803	QETN0JM-477Z	E CAPACITOR	470MF 20% 6.3V	
	C 804	QETN0JM-108Z	E CAPACITOR	1000MF 20% 6.3V	
	C 805	QDGB1HK-102Y	C CAPACITOR		
	C 806	QDGB1HK-102Y	C CAPACITOR		
	C 807	QCS11HJ-390	C CAPACITOR	39PF 5% 50V	
	C 808	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 809	QCS11HJ-330	C CAPACITOR	33PF 5% 50V	
	C 810	QCS11HJ-390	C CAPACITOR	39PF 5% 50V	
	C 811	QDGB1HK-102Y	C CAPACITOR		
	C 812	QCS11HJ-220	C CAPACITOR	22PF 5% 50V	
	C 813	QCS11HJ-270	C CAPACITOR	27PF 5% 50V	
	C 814	QDGB1HK-102Y	C CAPACITOR		
	C 815	EETC1HM-226ZJC	E CAPACITOR		
	C 816	EETC1CM-476ZJC	E CAPACITOR		
	C 817	EETC1HM-226ZJC	E CAPACITOR		
	C 818	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 819	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 820	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 821	QDYB1CM-103Y	C CAPACITOR		
	C 831	QDYB1CM-103Y	C CAPACITOR		
	C 832	QDYB1CM-103Y	C CAPACITOR		
	C 834	QEKC0JM-226Z	E CAPACITOR	22MF 20% 6.3V	
	C 851	EETC1EM-106ZJC	E CAPACITOR		
	C 852	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 853	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	
	C 854	EETC1EM-226ZJC	E CAPACITOR		
	C 855	QETN0JM-227Z	E CAPACITOR	220MF 20% 6.3V	
	C 856	QETN1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 857	EETC1CM-476ZJC	E CAPACITOR		
	C 858	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	B,E,EN,EV
	C 859	QCBB1HK-221Y	C CAPACITOR	220PF 10% 50V	B,E,EN,EV
	C 971	QDYB1CM-103Y	C CAPACITOR		
	C 972	QDYB1CM-103Y	C CAPACITOR		
	CN115	QGB2510K2-11	CONNECTOR		
	CN810	QGF1201F3-21	CONNECTOR		
	CN811	QGF1201F3-23	CONNECTOR		
	CN812	QGF1201F3-11	CONNECTOR		
	CN813	QGF1016F1-09	CONNECTOR		
	CN814	QGD2501C1-04Z	SOCKET		
	CN815	QGD2501C1-03Z	SOCKET		
	CN816	QGD2501C1-05Z	SOCKET		
	CN817	QGF1201C3-10	CONNECTOR		
	CN856	QGF1201C3-21	FFC/FPC CONNE		
	CN857	QGF1201C3-23	CONNECTOR		
	CN858	QGD2501C1-05Z	SOCKET ASSY		
	CN859	QGF1201C3-10	CONNECTOR		
	CN860	QGF1201C3-21	FFC/FPC CONNE		
	CN861	QGF1201C3-17	CONN.TERMINAL		
	CN862	QGF1201C3-21	FFC/FPC CONNE		
	CN863	QGA2501C1-02	2P CONNECTOR		
	CN921	QGF1016F1-09	CONNECTOR		
	CN971	QGF1201F3-10	CONNECTOR		
	C1001	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C1002	QDGB1HK-102Y	C CAPACITOR		B,E,EN,EV
	C1003	QDGB1HK-102Y	C CAPACITOR		
	C1004	QDGB1HK-102Y	C CAPACITOR		
	C1005	QDGB1HK-102Y	C CAPACITOR		
	C1006	QDGB1HK-102Y	C CAPACITOR		
	C1050	QDYB1CM-103Y	C CAPACITOR		
	C1051	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C1052	QFVJ1HJ-104Z	TF CAPACITOR	.10MF 5% 50V	
	C1053	QDXB1CM-222Y	C CAPACITOR		
	C1054	QDXB1CM-222Y	C CAPACITOR		
	C1055	QFLM1HJ-393Z	M CAPACITOR	.039MF 5% 50V	
	C1056	QFLM1HJ-393Z	M CAPACITOR	.039MF 5% 50V	
	C1057	QDVB1EZ-223Y	C CAPACITOR		
	C1058	QDVB1EZ-223Y	C CAPACITOR		
	C1059	QFLM1HJ-393Z	M CAPACITOR	.039MF 5% 50V	
	D 801	1SR35-400A-T5	DIODE		
	D 803	1SS119-02-T2	SI DIODE		
	D 804	1SS133-T2	SI DIODE		
	D 805	1SS133-T2	SI DIODE		
	D 831	MTZJ5.1B-T2	ZENER DIODE		
	D 832	MTZJ5.1B-T2	ZENER DIODE		
	D 920	SLR-342DC-T	LED	SA LED	
	D 955	SLR-342MC-T	LED		
	D 956	SLR-342MC-T	LED		
	D 957	SLR-342MC-T	LED		
	D 958	SLR-342MC-T	LED		
	D 961	1SS133-T2	SI DIODE		
	D 962	SLR-342VC-T	LED	POWER LED	
	D 981	SLR-342MC-T	LED		
	D 982	SLR-342MC-T	LED		
	D 983	SLR-342MC-T	LED		
	D 984	SLR-342MC-T	LED		
	D 991	SLR-342MC-T	LED		
	D 992	SLR-342MC-T	LED		
	D 993	SLR-342MC-T	LED		
	D1041	1SS133-T2	SI DIODE		
	D1042	1SS133-T2	SI DIODE		
	FL801	QLF0059-001	FL TUBE		
	FW901	QUM134-24DGZ4	FLAT WIRE		
	FW951	QUM027-08DGZ3	FLAT WIRE		
	FW961	QUM025-12DGZ3	FLAT WIRE		
	FW971	QUM026-07Z3Z3	FLAT WIRE		
	FW972	QUM025-07Z3Z3	FLAT WIRE		
	IC810	MN101C23DBP3	IC		
	IC811	NJU3714D	IC		
	IC812	GP1U291Q	IC	RM RECEIVER	
	IC853	TA8409S	IC		
	IC854	NJU3711D	IC		
	J 81	QNB0088-001	SPK.TERMINAL		B,E,EN,EV
	J 81	QNB0038-001	SPK.TERMINAL		J,C
	J 82	QNN0017-001	PIN JACK		
	J 83	QNN0197-001	PIN JACK		
	JS971	QSW0538-001	ROTARY ENCODER		
	J1001	QNS0030-001	JACK	HEAD PHONE	
	L 801	QQL173K-470Z	INDUCTOR		
	L 802	QQL231K-220Y	INDUCTOR		
	L 803	QQL29BJ-100Z	INDUCTOR		
	L 804	QQR0779-001Z	INDUCTOR		
	L 805	QQL173K-470Z	INDUCTOR		
	L 806	QQL173K-470Z	INDUCTOR		
	L 851	QQL29BJ-100Z	INDUCTOR		
	L 852	QQR0779-001Z	INDUCTOR		
	L 853	QQR0779-001Z	INDUCTOR		B,E,EN,EV
	L1001	QQL231K-470Y	INDUCTOR	EMC	B,E,EN,EV
	L1002	QQL231K-470Y	INDUCTOR	EMC	B,E,EN,EV
	L1003	QQR0779-001Z	INDUCTOR	HP GND	B,E,EN,EV
	L1003	QQL231K-2R2Y	INDUCTOR	HP GND	J,C
	Q 801	2SC2668/O/-T	TRANSISTOR		
	Q 802	2SC2668/O/-T	TRANSISTOR		
	Q 803	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 804	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 805	DTC114ESA-T	DIGITAL.TR TAPE		

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⚠	Item	Parts number	Parts name	Remarks	Area
	Q 806	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 807	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 808	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 809	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 810	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 811	DTC114ESA-T	DIGITAL.TR TAPE		
	Q 851	KTC3199/GL/-T	TRANSISTOR		
	Q 961	KRA102M-T	D.TRANSISTOR		
	R 801	QRE141J-331Y	C RESISTOR	330 5% 1/4W	
	R 802	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 803	QRE141J-223Y	C RESISTOR	22K 5% 1/4W	
	R 804	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 805	QRE141J-822Y	C RESISTOR	8.2K 5% 1/4W	
	R 806	QRE141J-124Y	C RESISTOR	120K 5% 1/4W	
	R 807	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 808	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 809	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 810	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 811	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 812	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 813	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 814	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 815	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 816	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 817	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 818	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 819	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 820	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 821	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 822	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 823	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 824	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 825	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 826	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 827	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 828	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 829	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 830	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 831	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 832	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 833	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 834	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 835	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 836	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 837	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 838	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 839	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 840	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 841	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 842	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 843	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 844	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 845	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 846	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 847	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 848	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 849	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 850	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 851	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 852	QRE141J-3R9Y	C RESISTOR	3.9 5% 1/4W	
	R 853	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 854	QRE141J-332Y	C RESISTOR	3.3K 5% 1/4W	
	R 856	QRE141J-151Y	C RESISTOR	150 5% 1/4W	
	R 857	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 920	QRE141J-391Y	C RESISTOR	390 5% 1/4W	
	R 921	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 922	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 923	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 924	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 925	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 926	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 927	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 928	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 931	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 932	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 933	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 934	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 935	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 936	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 937	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 938	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	R 939	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 940	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 941	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 942	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 943	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 944	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 945	QRE141J-153Y	C RESISTOR	15K 5% 1/4W	
	R 946	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 947	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	J,C
	R 948	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 949	QRE141J-104Y	C RESISTOR	100K 5% 1/4W	
	R 951	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 952	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 953	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 954	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	J,C
	R 955	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 956	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 957	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 958	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 961	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 962	QRE141J-472Y	C RESISTOR	4.7K 5% 1/4W	
	R 963	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	R 964	QRE141J-122Y	C RESISTOR	1.2K 5% 1/4W	
	R 981	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 982	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 983	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 984	QRE141J-201Y	C RESISTOR	200 5% 1/4W	
	R 985	QRE141J-103Y	C RESISTOR	10K 5% 1/4W	
	R 986	QRE141J-183Y	C RESISTOR	18K 5% 1/4W	
	R 987	QRE141J-563Y	C RESISTOR	56K 5% 1/4W	
	R 992	QRE141J-152Y	C RESISTOR	1.5K 5% 1/4W	
	R 993	QRE141J-222Y	C RESISTOR	2.2K 5% 1/4W	
	R 994	QRE141J-272Y	C RESISTOR	2.7K 5% 1/4W	
	R 995	QRE141J-392Y	C RESISTOR	3.9K 5% 1/4W	
	R 996	QRE141J-562Y	C RESISTOR	5.6K 5% 1/4W	
	RA801	QRB169J-104	R.NETWORK	100K 5% 1/6W	
	RA802	QRB169J-104	R.NETWORK	100K 5% 1/6W	
	RY 1	QSK0095-001	RELAY		
	RY 2	QSK0095-001	RELAY		
	R1051	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
	R1052	QRJ146J-4R7X	UNF C.RESISTOR	4.7 5% 1/4W	
	R1053	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R1054	QRE141J-393Y	C RESISTOR	39K 5% 1/4W	
	R1055	QRE141J-102Y	C RESISTOR	1.0K 5% 1/4W	
	S 921	QSW0674-001Z	TACT SWITCH		

■ Electrical parts list (System control & switch board) Block No. 03

⚠	Item	Parts number	Parts name	Remarks	Area
	S 922	QSW0674-001Z	TACT SWITCH		
	S 923	QSW0674-001Z	TACT SWITCH		
	S 924	QSW0674-001Z	TACT SWITCH		
	S 925	QSW0674-001Z	TACT SWITCH		
	S 926	QSW0674-001Z	TACT SWITCH		
	S 927	QSW0674-001Z	TACT SWITCH		
	S 928	QSW0674-001Z	TACT SWITCH		
	S 931	QSW0674-001Z	TACT SWITCH		
	S 932	QSW0674-001Z	TACT SWITCH		
	S 933	QSW0674-001Z	TACT SWITCH		
	S 934	QSW0674-001Z	TACT SWITCH		
	S 935	QSW0674-001Z	TACT SWITCH		
	S 936	QSW0674-001Z	TACT SWITCH		
	S 937	QSW0674-001Z	TACT SWITCH		
	S 938	QSW0674-001Z	TACT SWITCH		
	S 939	QSW0674-001Z	TACT SWITCH		
	S 941	QSW0674-001Z	TACT SWITCH		B,E,EN,EV
	S 942	QSW0674-001Z	TACT SWITCH		B,E,EN,EV
	S 943	QSW0674-001Z	TACT SWITCH		B,E,EN,EV
	S 944	QSW0674-001Z	TACT SWITCH		B,E,EN,EV
	S 945	QSW0674-001Z	TACT SWITCH		
	S 946	QSW0674-001Z	TACT SWITCH		
	S 948	QSW0122-001	PUSH SWITCH	PANEL OP	
	S 949	QSW0518-001	PUSH SWITCH	PANEL CL	
	S 951	QSW0674-001Z	TACT SWITCH		
	S 952	QSW0674-001Z	TACT SWITCH		
	S 953	QSW0674-001Z	TACT SWITCH		
	S 963	QSW0674-001Z	TACT SWITCH		
	S 985	QSW0674-001Z	TACT SWITCH		
	S 986	QSW0674-001Z	TACT SWITCH		
	S 992	QSW0674-001Z	TACT SWITCH		
	S 993	QSW0674-001Z	TACT SWITCH		
	S 994	QSW0674-001Z	TACT SWITCH		
	S 995	QSW0674-001Z	TACT SWITCH		
	S 996	QSW0674-001Z	TACT SWITCH		
	S 997	QSW0674-001Z	TACT SWITCH		
	SP801	VYH7653-001	IC HOLDER		
	X 801	QAX0416-001Z	RESONATOR		
	X 802	QAX0401-001	CRYSTAL		

■ Electrical parts list (CD servo control board)

Block No. 04

⚠	Item	Parts number	Parts name	Remarks	Area
	C 251	NCS21HJ-100X	C CAPACITOR		
	C 252	NCS21HJ-100X	C CAPACITOR		
	C 253	NCB21EK-104X	C CAPACITOR		
	C 254	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 255	NCB21EK-104X	C CAPACITOR		
	C 281	NCB21HK-223X	C CAPACITOR		
	C 291	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 601	NCB21HK-102X	C CAPACITOR		
	C 602	NCB21HK-102X	C CAPACITOR		
	C 603	NCB21HK-223X	C CAPACITOR		
	C 604	NCB21HK-223X	C CAPACITOR		
	C 605	NCS21HJ-271X	C CAPACITOR		
	C 606	NCS21HJ-181X	C CAPACITOR		
	C 607	NCB21HK-222X	C CAPACITOR		
	C 608	NCB21HK-223X	C CAPACITOR		
	C 610	NCB21EK-104X	C CAPACITOR		
	C 611	NCB21EK-104X	C CAPACITOR		
	C 612	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 613	NCS21HJ-101X	C CAPACITOR		
	C 614	NCB21HK-273X	C CAPACITOR		
	C 615	NCB21HK-472X	C CAPACITOR		
	C 616	NCB21HK-103X	C CAPACITOR		
	C 617	NCS21HJ-331X	C CAPACITOR		
	C 621	NCB21EK-104X	C CAPACITOR		
	C 623	NCF21CZ-105X	C CAPACITOR		
	C 624	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 631	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 632	NCF21CZ-105X	C CAPACITOR		
	C 633	NCB21HK-223X	C CAPACITOR		
	C 651	NCS21HJ-120X	C CAPACITOR		
	C 652	NCS21HJ-150X	C CAPACITOR		
	C 653	NCB21EK-104X	C CAPACITOR		
	C 654	NCB21HK-223X	C CAPACITOR		
	C 655	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 656	NCB21EK-104X	C CAPACITOR		
	C 657	NCB21HK-222X	C CAPACITOR		
	C 658	NCB21HK-222X	C CAPACITOR		
	C 661	NCB21EK-104X	C CAPACITOR		
	C 662	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 663	NCB21EK-104X	C CAPACITOR		
	C 664	NCB21HK-223X	C CAPACITOR		
	C 665	NCB21HK-223X	C CAPACITOR		
	C 666	NCS21HJ-471X	C CAPACITOR		
	C 667	NCF21CZ-105X	C CAPACITOR		
	C 668	NCB21HK-473X	C CAPACITOR		
	C 671	NCB21EK-104X	C CAPACITOR		
	C 672	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 801	NCB21HK-822X	C CAPACITOR		
	C 802	NCB21HK-152X	C CAPACITOR		
	C 811	NCS21HJ-221X	C CAPACITOR		
	C 812	NCS21HJ-221X	C CAPACITOR		
	C 813	NCS21HJ-221X	C CAPACITOR		
	C 814	NCS21HJ-221X	C CAPACITOR		
	C 821	NCF21CZ-105X	C CAPACITOR		
	C 822	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 851	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 852	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 855	NCB21EK-104X	C CAPACITOR		
	C 859	NCF21CZ-105X	C CAPACITOR		
	C 860	NCF21CZ-105X	C CAPACITOR		
	CN601	QGF1016F1-15	15FFC CONNECTOR	TRAVERSE	
	CN651	QGF1016F1-19	CONNECTOR	MAIN	
	CN801	QGA2001C1-06	6P PLUG ASSY	TRAVERSE	
	CN854	QGB2016K1-07	CONNECTOR	TRAY SWITCH	
	CN855	QGB2012K2-10	CONNECTOR	CAM SWITCH	
	IC251	UPD780055GC011	IC	MICOM	
	IC601	AN8806SB-W	IC	RF AMP	
	IC651	MN35510	IC	DSP & DAC	
	IC801	BA6897FP-W	IC	PU DRIVE	
	IC851	TA8409S	IC	L MOTOR DRIVE	
	IC852	TA8409S	IC	R MOTOR DRIVE	
	L 851	QQL244K-100Z	INDUCTOR	VS DE-COUPLE	
	L 853	QQL244K-100Z	INDUCTOR	L MOTOR	
	L 854	QQL244K-100Z	INDUCTOR	R MOTOR	
	Q 291	2SB1357/EF/-T	TRANSISTOR	/P.ON	
	Q 631	2SA1037AK/RS/-X	TRANSISTOR	APC	
	R 251	NRSA02J-102X	MG RESISTOR		
	R 252	NRSA02J-102X	MG RESISTOR		
	R 253	NRSA02J-102X	MG RESISTOR		
	R 254	NRSA02J-102X	MG RESISTOR		
	R 255	NRSA02J-102X	MG RESISTOR		
	R 256	NRSA02J-102X	MG RESISTOR		
	R 257	NRSA02J-102X	MG RESISTOR		
	R 258	NRSA02J-102X	MG RESISTOR		
	R 259	NRSA02J-101X	MG RESISTOR		
	R 260	NRSA02J-102X	MG RESISTOR		
	R 261	NRSA02J-102X	MG RESISTOR		
	R 265	NRSA02J-223X	MG RESISTOR		
	R 274	NRSA02J-102X	MG RESISTOR		
	R 275	NRSA02J-102X	MG RESISTOR		
	R 276	NRSA02J-102X	MG RESISTOR		
	R 277	NRSA02J-102X	MG RESISTOR		
	R 278	NRSA02J-102X	MG RESISTOR		
	R 279	NRSA02J-102X	MG RESISTOR		
	R 281	NRSA02J-102X	MG RESISTOR		
	R 282	NRSA02J-102X	MG RESISTOR		
	R 283	NRSA02J-102X	MG RESISTOR		
	R 284	NRSA02J-102X	MG RESISTOR		
	R 285	NRSA02J-102X	MG RESISTOR		
	R 286	NRSA02J-102X	MG RESISTOR		
	R 287	NRSA02J-102X	MG RESISTOR		
	R 291	NRSA02J-122X	MG RESISTOR		
	R 292	NRSA02J-103X	MG RESISTOR		
	R 293	NRSA02J-102X	MG RESISTOR		
	R 601	NRSA02J-274X	MG RESISTOR		
	R 602	NRSA02J-154X	MG RESISTOR		
	R 603	NRSA02J-273X	MG RESISTOR		
	R 604	NRSA02J-104X	MG RESISTOR		
	R 605	NRSA02J-154X	MG RESISTOR		
	R 606	NRSA02J-474X	MG RESISTOR		
	R 607	NRSA02J-102X	MG RESISTOR		
	R 611	NRSA02J-113X	MG RESISTOR		
	R 612	NRSA02J-125X	MG RESISTOR		
	R 631	NRSA02J-2R2X	MG RESISTOR		
	R 632	NRSA02J-100X	MG RESISTOR		
	R 634	NRSA02J-120X	MG RESISTOR		
	R 635	NRSA02J-121X	MG RESISTOR		
	R 636	NRSA02J-910X	MG RESISTOR		
	R 651	NRSA02J-271X	MG RESISTOR		
	R 652	NRSA02J-220X	MG RESISTOR		
	R 657	NRSA02J-102X	MG RESISTOR		
	R 658	NRSA02J-102X	MG RESISTOR		
	R 661	NRSA02J-220X	MG RESISTOR		
	R 662	NRSA02J-471X	MG RESISTOR		
	R 663	NRSA02J-124X	MG RESISTOR		
	R 665	NRSA02J-683X	MG RESISTOR		

■ Electrical parts list (CD servo control board) Block No. 04

⚠	Item	Parts number	Parts name	Remarks	Area
	R 666	NRSA02J-155X	MG RESISTOR		
	R 667	NRSA02J-562X	MG RESISTOR		
	R 671	NRSA02J-102X	MG RESISTOR		
	R 672	NRSA02J-102X	MG RESISTOR		
	R 673	NRSA02J-102X	MG RESISTOR		
	R 674	NRSA02J-101X	MG RESISTOR		
	R 675	NRSA02J-102X	MG RESISTOR		
	R 676	NRSA02J-102X	MG RESISTOR		
	R 677	NRSA02J-102X	MG RESISTOR		
	R 678	NRSA02J-102X	MG RESISTOR		
	R 679	NRSA02J-102X	MG RESISTOR		
	R 680	NRSA02J-102X	MG RESISTOR		
	R 681	NRSA02J-102X	MG RESISTOR		
	R 682	NRSA02J-102X	MG RESISTOR		
	R 683	NRSA02J-102X	MG RESISTOR		
	R 684	NRSA02J-271X	MG RESISTOR		
	R 685	NRSA02J-102X	MG RESISTOR		
	R 686	NRSA02J-101X	MG RESISTOR		
	R 687	NRSA02J-102X	MG RESISTOR		
	R 688	NRSA02J-101X	MG RESISTOR		
	R 689	NRSA02J-102X	MG RESISTOR		
	R 690	NRSA02J-101X	MG RESISTOR		
	R 691	NRSA02J-101X	MG RESISTOR		
	R 692	NRSA02J-101X	MG RESISTOR		
	R 693	NRSA02J-471X	MG RESISTOR		
	R 694	NRSA02J-102X	MG RESISTOR		
	R 801	NRSA02J-222X	MG RESISTOR		
	R 802	NRSA02J-472X	MG RESISTOR		
	R 803	NRSA02J-123X	MG RESISTOR		
	R 804	NRSA02J-154X	MG RESISTOR		
	R 805	NRSA02J-123X	MG RESISTOR		
	R 806	NRSA02J-223X	MG RESISTOR		
	R 807	NRSA02J-222X	MG RESISTOR		
	R 808	NRSA02J-223X	MG RESISTOR		
	R 811	NRSA02J-473X	MG RESISTOR		
	R 812	NRSA02J-223X	MG RESISTOR		
	R 831	NRSA02J-151X	MG RESISTOR		
	R 832	NRSA02J-103X	MG RESISTOR		
	R 842	NRSA02J-472X	MG RESISTOR		
	R 851	NRSA02J-102X	MG RESISTOR		
	R 852	NRSA02J-102X	MG RESISTOR		
	R 853	NRSA02J-102X	MG RESISTOR		
	R 854	NRSA02J-102X	MG RESISTOR		
	R 855	NRSA02J-102X	MG RESISTOR		
	R 856	NRSA02J-102X	MG RESISTOR		
	R 857	NRSA02J-272X	MG RESISTOR		
	R 859	NRSA02J-181X	MG RESISTOR		
	R 861	NRSA02J-102X	MG RESISTOR		
	R 862	NRSA02J-102X	MG RESISTOR		
	R 863	NRSA02J-102X	MG RESISTOR		
	R 864	NRSA02J-102X	MG RESISTOR		
	R 865	NRSA02J-102X	MG RESISTOR		
	R 866	NRSA02J-102X	MG RESISTOR		
	R 880	NRSA02J-102X	MG RESISTOR		
	R 881	NRSA02J-102X	MG RESISTOR		
	R 882	NRSA02J-102X	MG RESISTOR		
	R 883	NRSA02J-102X	MG RESISTOR		
	R 884	NRSA02J-102X	MG RESISTOR		
	R 885	NRSA02J-102X	MG RESISTOR		
	R 886	NRSA02J-102X	MG RESISTOR		
	R 887	NRSA02J-102X	MG RESISTOR		
	W 601	QUB220-07HPDT	SIN TWIST WIRE	D.GND	
	X 251	QAX0360-001Z	CRYSTAL	FOR IC251	
	X 651	QAX0413-001Z	CRYSTAL	FOR IC651	

■ Electrical parts list (CD changer mechanism switch board) Block No.05

⚠	Item	Parts number	Parts name	Remarks	Area
	CN804	QGB2016J1-07	CONNECTOR		
	SW 1	QSW0859-001	DETECT SWITCH		
	SW 2	QSW0859-001	DETECT SWITCH		
	SW 3	QSW0859-001	DETECT SWITCH		
	SW 4	QSW0859-001	DETECT SWITCH		
	SW 5	QSW0859-001	DETECT SWITCH		
	SW 6	QSW0859-001	DETECT SWITCH		

■ Electrical parts list (Cassette mechanism control board) Block No. 06

⚠	Item	Parts number	Parts name	Remarks	Area
	C 101	NCS21HJ-561X	C CAPACITOR		
	C 102	NCS21HJ-331X	C CAPACITOR		
	C 103	NCS21HJ-561X	C CAPACITOR		
	C 104	NCS21HJ-221X	C CAPACITOR		
	C 105	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 106	NCB21HK-333X	C CAPACITOR		
	C 107	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 108	NCB21HK-393X	C CAPACITOR		
	C 110	NCS21HJ-221X	C CAPACITOR		
	C 111	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 112	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 113	NCB21HK-332X	C CAPACITOR		
	C 114	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 115	NCB21HK-153X	C CAPACITOR		
	C 116	NCB21HK-822X	C CAPACITOR		
	C 117	NCB21HK-223X	C CAPACITOR		
	C 119	NCB21HK-563X	C CAPACITOR		
	C 120	NCS21HJ-330X	C CAPACITOR		
	C 201	NCS21HJ-561X	C CAPACITOR		
	C 202	NCS21HJ-331X	C CAPACITOR		
	C 203	NCS21HJ-561X	C CAPACITOR		
	C 204	NCS21HJ-221X	C CAPACITOR		
	C 205	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 206	NCB21HK-333X	C CAPACITOR		
	C 207	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 208	NCB21HK-393X	C CAPACITOR		
	C 210	NCS21HJ-221X	C CAPACITOR		
	C 211	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 212	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 213	NCB21HK-332X	C CAPACITOR		
	C 214	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 215	NCB21HK-153X	C CAPACITOR		
	C 216	NCB21HK-822X	C CAPACITOR		
	C 217	NCB21HK-223X	C CAPACITOR		
	C 219	NCB21HK-563X	C CAPACITOR		
	C 220	NCS21HJ-330X	C CAPACITOR		
	C 301	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 302	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 303	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 304	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 305	NCB21HK-393X	C CAPACITOR		
	C 306	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 308	NCB21HK-562X	C CAPACITOR		
	C 309	NCB21HK-562X	C CAPACITOR		
	C 310	NCB21HK-223X	C CAPACITOR		
	C 311	NCB21HK-682X	C.CAPACITOR		
	C 313	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 314	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 315	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 316	QFG32AJ-103Z	PP CAPACITOR	.010MF 5% 100V	
	C 318	NCB21HK-103X	C CAPACITOR		
	C 319	QFG32AJ-821Z	TF CAPACITOR	820PF 5% 100V	
	C 321	NCB21HK-103X	C CAPACITOR		
	C 322	QFG32AJ-152Z	M CAPACITOR	1500PF 5% 100V	
	C 327	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 328	NCS21HJ-151X	C CAPACITOR		
	C 329	NCS21HJ-151X	C CAPACITOR		
	C 330	NCS21HJ-151X	C CAPACITOR		
	C 332	NCS21HJ-151X	C CAPACITOR		
	C 335	NCB21HK-103X	C CAPACITOR		
	C 336	NCB21HK-103X	C CAPACITOR		
	C 337	NCB21HK-103X	C CAPACITOR		
	C 338	NCB21HK-103X	C CAPACITOR		
	C 339	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 340	NCB21HK-103X	C CAPACITOR		
	C 341	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 342	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 343	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C 344	NCB21HK-472X	C CAPACITOR		
	C 345	NCS21HJ-331X	C CAPACITOR		
	C 350	QFLM1HJ-102Z	M CAPACITOR	1000PF 5% 50V	
	CN301	QGF1205F1-06	CONNECTOR		
	CN302	QGF1205F1-06	CONNECTOR		
	CN303	QGB2011M1-10	B TO B CONNECTO		
	CN304	QGB2011M1-10	B TO B CONNECTO		
	CN305	QGF1205F1-10	CONNECTOR		
	CN306	QGF1205F1-11	CONNECTOR		
	D 307	HZM5.1NB2-X	CHIP Z DIODE CM		
	D 308	HZM5.1NB2-X	CHIP Z DIODE CM		
	D 309	MA704A-X	S.K.DIODE		
	IC301	BA3126N	IC		
	IC302	AN7345K	IC		
	IC303	BU4094BCF-X	IC		
	IC304	BU4094BCF-X	IC		
	L 202	QQR0779-001Z	INDUCTOR	EMC	
	L 301	QQR0620-001	OSC COIL(BIAS)		
	L 303	QQL01BK-100Z	INDUCTOR		
	Q 102	DTC144TKA-X	TRANSISTOR		
	Q 103	DTC144EKA-X	TRANSISTOR		
	Q 105	2SC3576-JVC-T	TRANSISTOR		
	Q 202	DTC144TKA-X	TRANSISTOR		
	Q 203	DTC144EKA-X	TRANSISTOR		
	Q 205	2SC3576-JVC-T	TRANSISTOR		
	Q 302	2SC2001/K/-T	TRANSISTOR		
	Q 303	2SC2001/K/-T	TRANSISTOR		
	Q 304	2SC3576-JVC-T	TRANSISTOR		
	Q 305	2SC3576-JVC-T	TRANSISTOR		
	Q 306	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 307	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 308	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 309	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 312	2SB562/C/-T	TRANSISTOR		
	Q 313	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 314	2SB562/C/-T	TRANSISTOR		
	Q 315	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 316	2SA952/LK/-T	TRANSISTOR		
	Q 317	DTC124EKA-X	TRANSISTOR		
	Q 321	DTC144EKA-X	TRANSISTOR		
	Q 322	DTC144EKA-X	TRANSISTOR		
	Q 323	2SC2412K/RS/-X	CHIP TRANSISTOR		
	R 102	NRSA02J-102X	MG RESISTOR		
	R 103	NRSA02J-183X	MG RESISTOR		
	R 105	NRSA02J-220X	MG RESISTOR		
	R 106	NRSA02J-392X	MG RESISTOR		
	R 107	NRSA02J-123X	MG RESISTOR		
	R 108	NRSA02J-222X	MG RESISTOR		
	R 109	NRSA02J-152X	MG RESISTOR		
	R 111	NRSA02J-562X	MG RESISTOR		
	R 112	NRSA02J-122X	MG RESISTOR		
	R 113	NRSA02J-271X	MG RESISTOR		
	R 114	NRSA02J-391X	MG RESISTOR		
	R 115	NRSA02J-332X	MG RESISTOR		
	R 117	NRSA02J-332X	MG RESISTOR		
	R 118	NRSA02J-152X	MG RESISTOR		
	R 119	NRSA02J-203X	MG RESISTOR		
	R 120	NRSA02J-102X	MG RESISTOR		

■ Electrical parts list (Cassette mechanism control board) Block No. 06

⚠	Item	Parts number	Parts name	Remarks	Area
	R 121	NRSA02J-122X	MG RESISTOR		
	R 202	NRSA02J-102X	MG RESISTOR		
	R 203	NRSA02J-183X	MG RESISTOR		
	R 205	NRSA02J-220X	MG RESISTOR		
	R 206	NRSA02J-392X	MG RESISTOR		
	R 207	NRSA02J-123X	MG RESISTOR		
	R 208	NRSA02J-222X	MG RESISTOR		
	R 209	NRSA02J-152X	MG RESISTOR		
	R 211	NRSA02J-562X	MG RESISTOR		
	R 212	NRSA02J-122X	MG RESISTOR		
	R 213	NRSA02J-271X	MG RESISTOR		
	R 214	NRSA02J-391X	MG RESISTOR		
	R 215	NRSA02J-332X	MG RESISTOR		
	R 217	NRSA02J-332X	MG RESISTOR		
	R 218	NRSA02J-152X	MG RESISTOR		
	R 219	NRSA02J-203X	MG RESISTOR		
	R 220	NRSA02J-102X	MG RESISTOR		
	R 221	NRSA02J-122X	MG RESISTOR		
	R 301	NRS181J-221X	MG RESISTOR		
	R 302	NRS181J-101X	MG RESISTOR		
	R 304	NRSA02J-393X	MG RESISTOR		
	R 305	NRSA02J-103X	MG RESISTOR		
	R 306	NRSA02J-103X	MG RESISTOR		
	R 307	NRSA02J-103X	MG RESISTOR		
	R 308	NRSA02J-152X	MG RESISTOR		
	R 309	NRSA02J-152X	MG RESISTOR		
	R 310	NRS181J-820X	MG RESISTOR		
	R 311	NRS181J-820X	MG RESISTOR		
	R 313	NRSA02J-3R3X	MG RESISTOR		
	R 314	NRSA02J-223X	MG RESISTOR		
	R 315	NRSA02J-100X	MG RESISTOR		
	R 316	NRSA02J-223X	MG RESISTOR		
	R 317	NRSA02J-100X	MG RESISTOR		
	R 318	NRSA02J-123X	MG RESISTOR		
	R 319	NRSA02J-152X	MG RESISTOR		
	R 321	NRSA02J-123X	MG RESISTOR		
	R 322	NRSA02J-152X	MG RESISTOR		
	R 327	NRSA02J-474X	MG RESISTOR		
	R 328	NRSA02J-222X	MG RESISTOR		
	R 329	NRSA02J-222X	MG RESISTOR		
	R 330	NRSA02J-0R0X	MG RESISTOR		
	R 335	NRSA02J-222X	MG RESISTOR		
	R 336	NRSA02J-392X	MG RESISTOR		
	R 338	NRSA02J-222X	MG RESISTOR		
	R 339	NRSA02J-222X	MG RESISTOR		
	R 341	NRSA02J-222X	MG RESISTOR		
	R 343	NRSA02J-0R0X	MG RESISTOR		
	R 345	NRSA02J-222X	MG RESISTOR		
	R 346	NRSA02J-0R0X	MG RESISTOR		
	R 347	NRSA02J-392X	MG RESISTOR		
	R 348	NRSA02J-222X	MG RESISTOR		
	R 350	NRSA02J-472X	MG RESISTOR		
	R 351	NRSA02J-151X	MG RESISTOR		
	R 353	NRSA02J-472X	MG RESISTOR		
	R 354	NRSA02J-151X	MG RESISTOR		
	R 355	NRSA02J-332X	MG RESISTOR		
	R 357	NRSA02J-103X	MG RESISTOR		
	R 358	NRSA02J-222X	MG RESISTOR		
	R 359	NRSA02J-123X	MG RESISTOR		
	R 360	NRSA02J-433X	MG RESISTOR		
	R 361	NRSA02J-183X	MG RESISTOR		
	R 362	NRSA02J-123X	MG RESISTOR		
	R 363	NRSA02J-183X	MG RESISTOR		
	R 364	NRSA02J-433X	MG RESISTOR		
	R 365	NRSA02J-203X	MG RESISTOR		
	R 366	NRSA02J-123X	MG RESISTOR		
	R 367	NRSA02J-102X	MG RESISTOR		
	R 368	NRSA02J-391X	MG RESISTOR		
	R 369	NRSA02J-391X	MG RESISTOR		
	R 371	NRS181J-222X	MG RESISTOR		
	R 374	NRSA02J-912X	MG RESISTOR		
	R 375	NRSA02J-683X	MG RESISTOR		
	R 376	NRS181J-6R8X	MG RESISTOR		
	VR101	QVP0008-503Z	SEMI V RESISTOR		
	VR201	QVP0008-503Z	SEMI V RESISTOR		
	VR301	QVP0008-103Z	SEMI V RESISTOR		
	WIRE	EWR34D-10CS	FLAT WIRE		

■ Electrical parts list (Cassette mechanism switch board) Block No. 07

⚠	Item	Parts number	Parts name	Remarks	Area
	CN 1	QGB2011L1-10	B TO B CONNECTO		
	D 1	1SR139-400-T2	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	QNZ0104-001	POST PIN		
	SW 2	QSW0832-001	LEAF SWITCH	TAPE	
	SW 4	QSW0832-001	LEAF SWITCH	70U	
	SW 6	QSW0507-001	SWITCH		

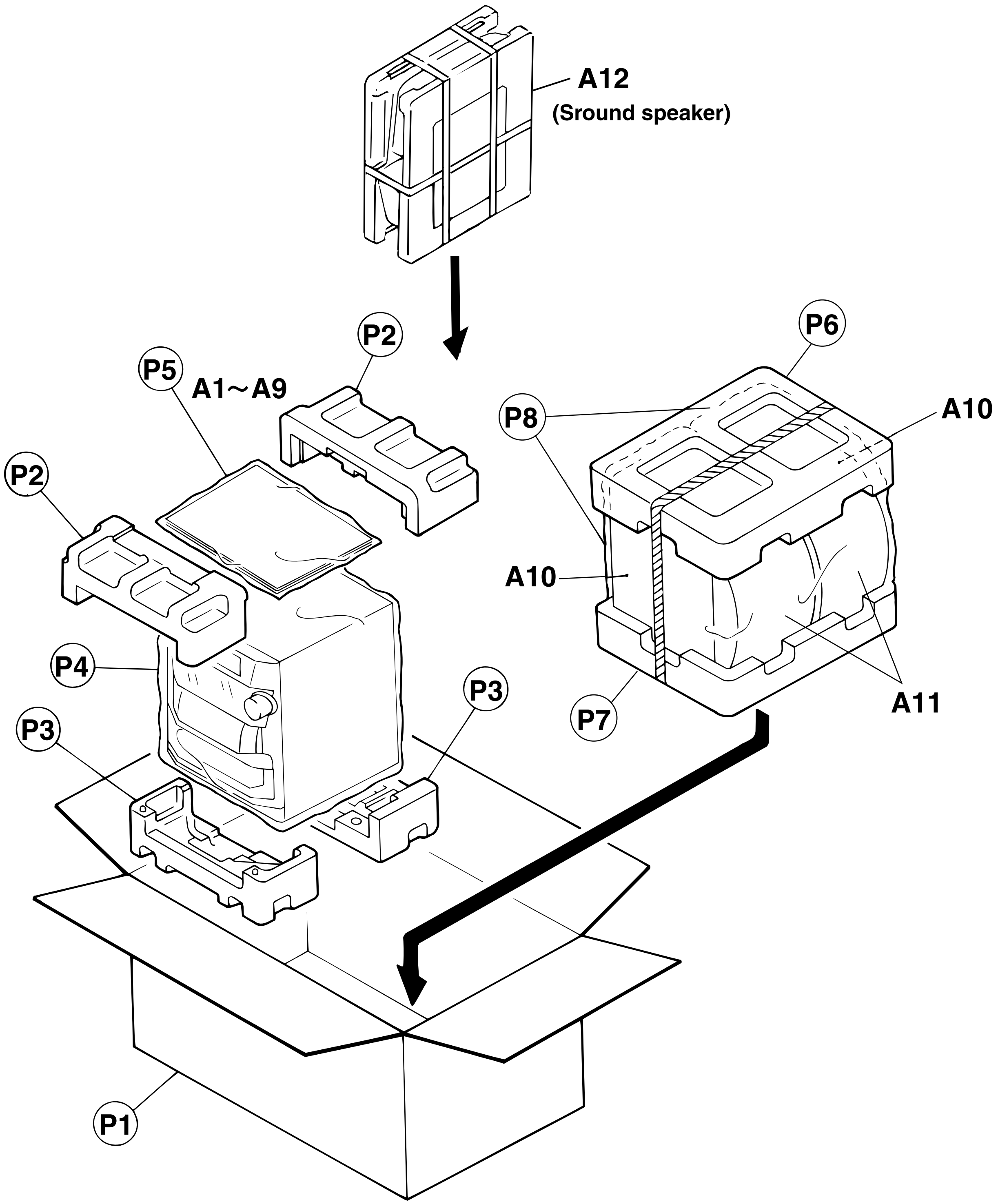
■ Electrical parts list (Cassette mechanism switch board) Block No. 08

⚠	Item	Parts number	Parts name	Remarks	Area
	CN 1	QGB2011L1-10	B TO B CONNECTO		
	D 1	1SR139-400-T2	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	QNZ0104-001	POST PIN		
	SW 1	QSW0832-001	LEAF SWITCH	R.REC	
	SW 2	QSW0832-001	LEAF SWITCH	TAPE	
	SW 4	QSW0832-001	LEAF SWITCH	70U	
	SW 5	QSW0832-001	LEAF SWITCH	F.REC	
	SW 6	QSW0507-001	SWITCH		

Packing materials and accessories parts list

MX-J800

Block No. M 5 M M
Block No. M 6 M M


A12
(Sround speaker)
P2
P5
A1～A9
P2
P6
P8
A10
A10
P4
P3
P3
P7
A11
P1

■ Parts list (Packing) MX-J800

Block No. M5MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	GV20093-001A	PACKING CASE	1		C
		GV20069-001A	PACKING CASE	1		J
	P 2	GV10016-003A	CUSHION UPPER	1		
	P 3	GV10017-002A	CUSHION BOTTM	1		
	P 4	QPC06506515P	POLY BAG	1		
	P 5	QPC02503515P	POLY BAG	1		
	P 6	720-TSPJ50-00	CUSHION UPPER	1	FOR SPEAKER	
	P 7	720-BSPJ50-00	CUSHION BOTTM	1	FOR SPEAKER	
	P 8	700-120034-10	POLY BAG	2	FOR SPEAKER	

■ Parts list (Accessories) MX-J800

Block No. M6MM

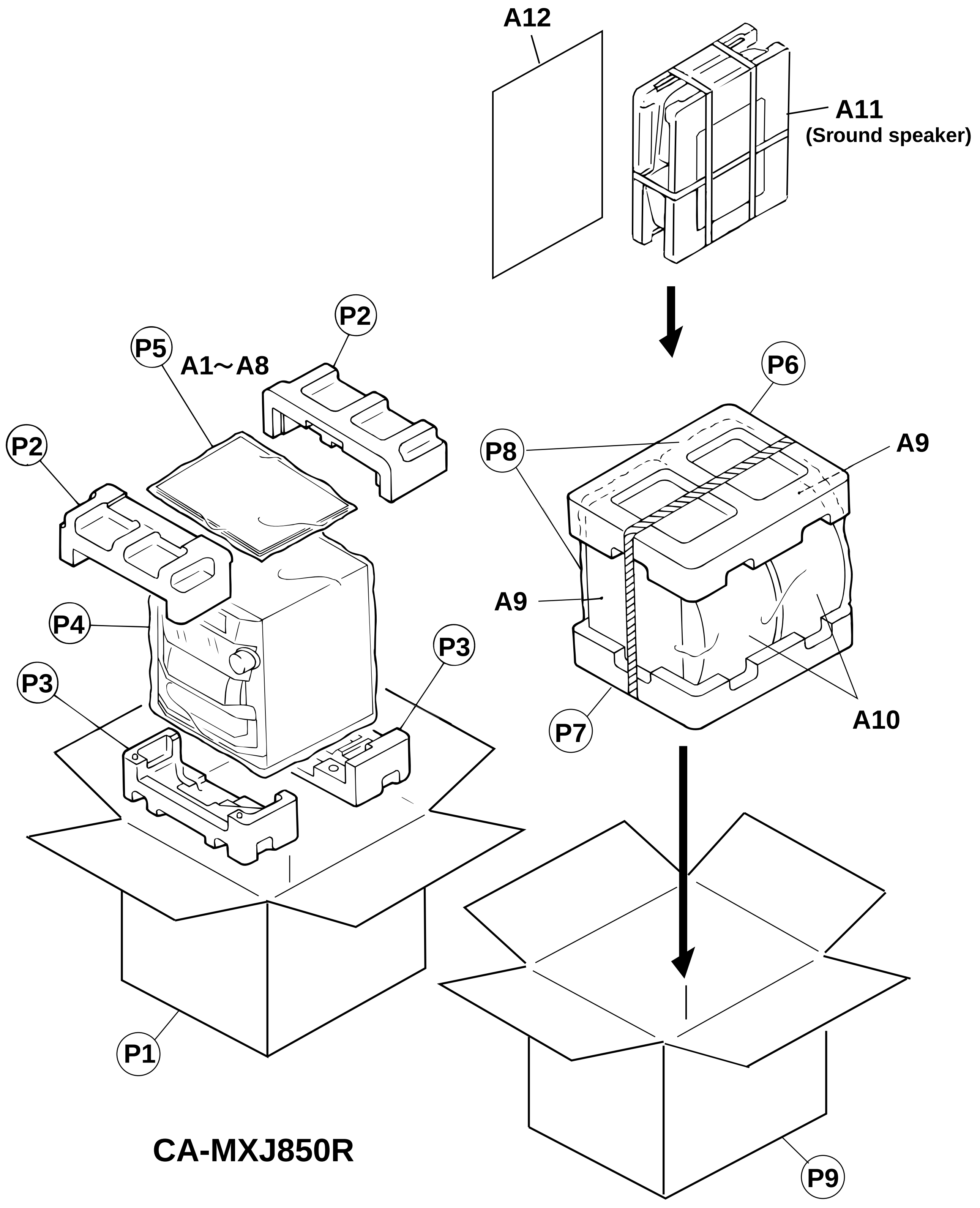
⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GVT0044-001A	INST.BOOK	1	ENG	J
		GVT0044-002A	INST.BOOK	1	ENG,FRE	C
	A 2	BT-52004-1	WARRANTY CARD	1		C
	A 3	BT-51020-2	REGIST CARD	1		J
	A 4	BT-20071B	JVC CENTER LIST	1		C
	A 5	BT-20044G	SAFETY SHEET	1		
	A 6	QAL0014-001	AM LOOP ANT	1		
	A 7	EWP201-011	B. IN ANT	1		
	A 8	---------------	BATTERY	1		
	A 9	RM-SMXJ70J	REMOCON	1		
	A 10	MXJ800J-SPBOX-L	SP BOX ASS'Y(L)	1		
		MXJ800J-SPBOX-R	SP BOX ASS'Y(R)	1		
	A 11	201-L0J800-10	SPEAKER NET(L)	1		
		201-R0J800-10	SPEAKER NET(R)	1		
	A 12	SP-DSC99BU	SROUND SP BOX	1		
		SP-DSS99BU	SROUND SP BOX	2		

Packing materials and accessories parts list

CA-J850R/SP-MXJ850R

Block No. M 7 M M

Block No. M 8 M M


A12
A11
(Sround speaker)
P2
P5
A1～A8
P6
P2
P8
A9
A9
P4
P3
P3
A10
P7
P1
P9

CA-MXJ850R

SP-MXJ850R

■ Parts list (Packing) CA-MXJ850R/SP-MXJ850R

Block No. M7MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	P 1	GV20070-001A	PACKING CASE	1	CA-MXJ850R	
	P 2	GV10018-002A	CUSHION UPPER	1	CA-MXJ850R	
	P 3	GV10019-002A	CUSHION BOTTM	1	CA-MXJ850R	
	P 4	QPC06506515P	POLY BAG	1	CA-MXJ850R	
	P 5	QPC02503515P	POLY BAG	1	CA-MXJ850R	
	P 6	720-TSPJ50-00	CUSHION UPPER	1	SP-MXJ850R	
	P 7	720-BSPJ50-00	CUSHION BOTTM	1	SP-MXJ850R	
	P 8	700-120034-10	POLY BAG	2	SP-MXJ850R	
	P 9	730-00J850-10	PACKING CASE	1	SP-MXJ850R	

■ Parts list (Accessories) CA-MXJ850R/SP-MXJ850R

Block No. M8MM

⚠	Item	Parts number	Parts name	Q'ty	Description	Area
	A 1	GVT0044-006A	INST.BOOK(CA-MXJ850R)	1	ENG,GER,FRE,DUT,SPA,ITA	E
		GVT0044-007A	INST.BOOK(CA-MXJ850R)	1	SWE,FIN,DAN,GER,FRE,DUT	EN
		GVT0044-008A	INST.BOOK(CA-MXJ850R)	1	ENG	B
		GVT0044-009A	INST.BOOK(CA-MXJ850R)	1	ENG,CZE,POL,HUN	EV
	A 2	E43486-340A	BS=SAFETY INST	1		B
	A 3	VNA3000-202	REGIST.CARD	1		B
	A 4	BT-54013-1	WARRANTY CARD	1		
	A 5	QAL0014-001	AM LOOP ANT	1		
	A 6	EWP503-001	ANT.WIRE	1		
	A 7	---------------	BATTERY	1		
	A 8	RM-SMXJ75R	REMOCON	1		
	A 9	MXJ800J-SPBOX-R	SP BOX ASS'Y(R)	1	SP-MXJ850R	
		MXJ800J-SPBOX-L	SP BOX ASS'Y(L)	1	SP-MXJ850R	
	A 10	201-L0J800-10	SPEAKER NET(L)	1	SP-MXJ850R	
		201-R0J800-10	SPEAKER NET(R)	1	SP-MXJ850R	
	A 11	SP-DSC99BU	SROUND SP BOX	1	SP-DS99BU	
		SP-DSS99BU	SROUND SP BOX	2	SP-DS99BU	
	A 12	GVT0042-001A	INST.BOOK(SP-MXJ850R)	1	ENG,GER,FRE,DUT,SPA,ITA, SWE,FIN,DAN	

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PERSONAL & MOBILE NETWORK B.U. 10-1,1Chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

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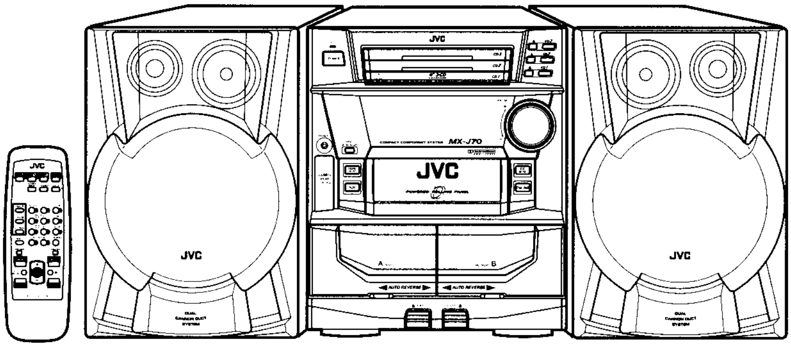
200006(V)

JVC

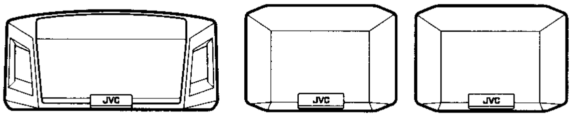
SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-J70 / MX-J76 / MX-J75R



This Illustration is MX-J70



(SP-DSC99SL)

SP-DS99SL

(SP-DSS99SL)

Area Suffix(MX-J70)	
J	U.S.A.
C	Canada
U	Other Areas
US	Singapore
UX	Saudi Arabia
UT	Taiwan
UP	Korea
UY	Argentina
A	Australia

Area Suffix(MX-J76)	
C	Canada

Area Suffix(MX-J75R)	
B	U.K.
E	Continental Europe
EN	Northern Europe
EV	Eastern Europe
EE	Russian Europe

Each difference point

Model	Version	Color	Optical out	RDS	MIC,ECHO
MX-J70	except U type	Light silver	O	X	X
MX-J70	only U type	Light silver	O	X	O
MX-J76	———	Light silver + Gray	X	X	X
MX-J75R	———	Light silver	O	O	X

R·D·S EON

Only MX-J75R

COMPACT disc DIGITAL AUDIO

DOLBY SURROUND PRO · LOGIC

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Important for laser products ------------ 1-4
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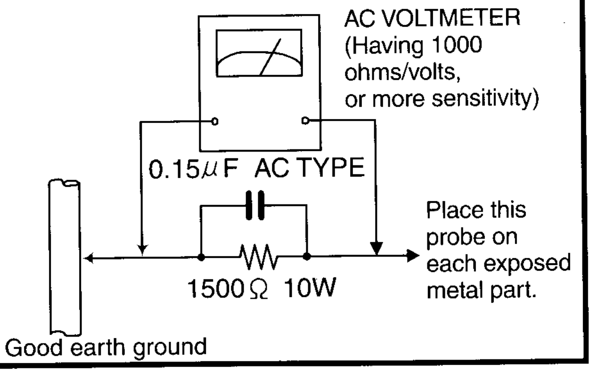
Safety Precautions

1. This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer`s warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
5. Leakage current check (Electrical shock hazard testing)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet , particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.)
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now reverse the plug in the AC outlet and repeat each measurement voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

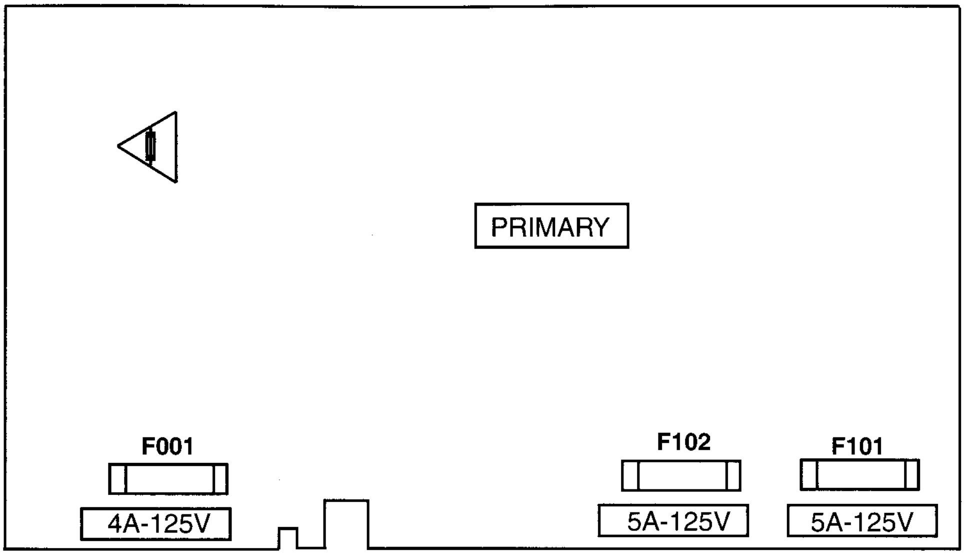

AC VOLTMETER
(Having 1000 ohms/volts, or more sensitivity)
0.15µF AC TYPE
1500Ω 10W
Place this probe on each exposed metal part.
Good earth ground

Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

Importance admistering point on the safety



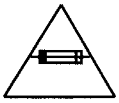
Power supply board (solder side)

Note : It's means "J" for U.S.A. market model and "C" for canada market model.

MX-J70C/J ONLY

Full Fuse Replacement Marking

Graphic symbol mark
(This symbol means fast blow type fuse.)



should be read as follows ;

FUSE CAUTION

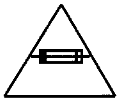
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSES ;

F001 : 4-A, 125-V
F101 : 5- A, 125-V
F102 : 5-A, 125-V

MX-J70C/J SEULEMENT

Marquage Pour Le Remplacement Complet De Fusible

Le symbole graphique (Ce symbole signifie fusible de type á fusion rapide.)



doit être interprété comme suit ;

PRECAUTIONS SUR LES FUSIBLES

POUR UNE PROTECTION CONTINUE CONTRE DES RISQUES D'INCENDIE, REMPLACER SEULEMENT PAR UN FUSIBLE DU MEME TYPE ;

F001 : 4-A, 125-V
F101 : 5- A, 125-V
F102 : 5-A, 125-V

Important for laser products

1.CLASS 1 LASER PRODUCT

2.DANGER : Invisible laser radiation when open and inter lock failed or defeated. Avoid direct exposure to beam.

3.CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.

4.CAUTION : The compact disc player uses invisible laserradiation and is equipped with safety switches whichprevent emission of radiation when the drawer is open and the safety interlocks have failed or are de feated. It is dangerous to defeat the safety switches.

5.CAUTION : If safety switches malfunction, the laser is able to function.

6.CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning,når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

WARNING LABEL

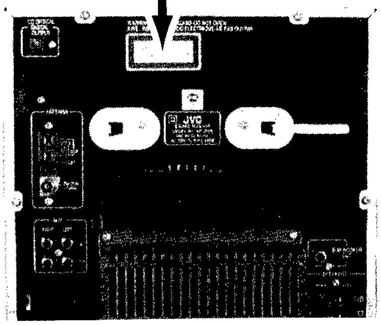
DANGER : Invisible laser radiation when open and interlock or defeated.
AVOID DIRECT EXPOSURE TO BEAM (e)

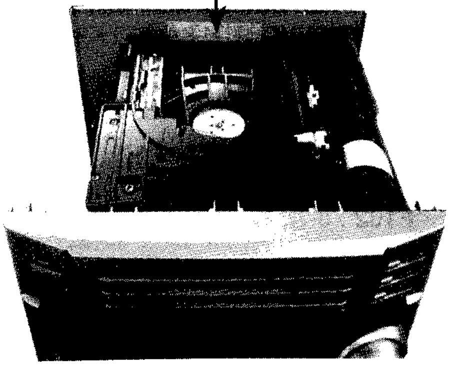
VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle.Älä katso säteeseen. (d)

VARNING : Osynlig laserstrålning är denna del är öppnad och spårren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL :Usynlig laserstråling ved åbning , når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (f)

CLASS 1
LASER PRODUCT

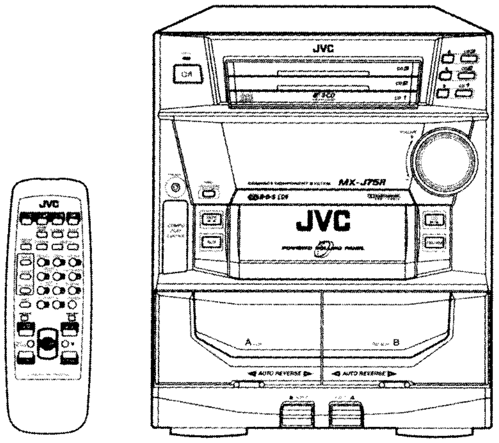




JVC

COMPACT COMPONENT SYSTEM
KOMPAKT-KOMPONENTEN-SYSTEM
SYSTEME DE COMPOSANTS COMPACT
KOMPACTO KOMPONENTEN-SYSTEEM
SISTEMAS DE COMPONENTES COMPACTOS
IMPIANTO A COMPONENTI COMPATTO

CA-MXJ75R



COMPACT disc DIGITAL AUDIO

R·D·S EON

DOLBY SURROUND PRO · LOGIC

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

For Customer Use:
Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. ____________

Serial No. ____________

GVT0013-006A
[E]

Warnings, Cautions and Others / Warnung, Achtung und sonstige Hinweise /Mises en garde, précautions et indications diverses /Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas / Avvertenze e precauzioni da osservare

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nontheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT:

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue :	Neutral
Brown :	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Per l'Italia:
"Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95."

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen entfernen und das Gehäuse nicht öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel het toestel niet bloot aan regen of vocht.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE
Per ridurre il rischio di shock elettrici, incendi, ecc...
1. Non togliete viti, coperchi o la scatola.
2. Non esponete l'apparecchio alla piogggia e all'umidità.

Caution — ⏻/I switch!
Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — ⏻/I-Schalter!
Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter ⏻/I unterbrichet in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur ⏻/I!
Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur ⏻/I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

Voorzichtig — ⏻/I schakelaar!
Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de ⏻/I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor ⏻/I!
Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor ⏻/I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Attenzione — L'interruttore ⏻/I!
Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ⏻/I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

English
Deutsch
Français
Nederlands
Español
Italiano

Caution: Proper Ventilation
To avoid risk of electric shock and fire, and to prevent damage, locate the apparatus as follows:
1 Front:
  No obstructions and open spacing.
2 Sides/ Top/ Back:
  No obstructions should be placed in the areas shown by the dimensions below.
3 Bottom:
  Place on the level surface. Maintain an adequate air path for ventilation by placing on a stand with a height of 10 cm or more.

Achtung: Ausreichende Belüftung
Zur Vermeidung von elektrischen Schlägen, Feuer und sonstigen Schäden sollte das Gerät unter folgenden Bedingungen aufgestellt werden:
1 Vorderseite:
  Hindernisfrei und gut zugänglich.
2 Seiten- und Rückwände:
  Hindernisfrei in allen gegebenen Abständen (s. Abbildung).
3 Unterseite:
  Die Stellfläche muß absolut eben sein. Sorgen Sie für ausreichende Luftzufuhr durch Aufstellung auf einem Stand mit mindestens 10 cm Höhe.

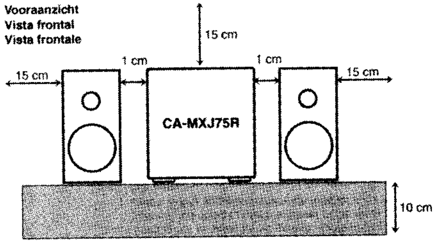
Attention: Aération correcte
Pour prévenir tout risque de décharge électrique ou d'incendie et éviter toute détérioration, installez l'appareil de la manière suivante:
1 Avant:
  Bien dégagé de tout objet.
2 Côtés/dessus/dessous:
  Assurez-vous que rien ne bloque les espaces indiqués sur le schéma ci-dessous.
3 Dessous:
  Posez l'appareil sur une surface plane et horizontale. Veillez à ce que sa ventilation correcte puisse se faire en le plaçant sur un support d'au moins dix centimètres de hauteur.

Voorzichtig: Goede ventilatie vereist
Om brand, elektrische schokken en beschadiging te voorkomen, moet u het toestel als volgt opstellen:
1 Voorkant:
  Geen belemmeringen en voldoende ruimte.
2 Zijkanten/boven-/onderkant:
  Geen belemmeringen plaatsen in de hieronder aangegeven zones.
3 Onderkant:
  Op vlakke ondergrond plaatsen. Voldoende ventilatieruimte voorzien door het toestel op een onderstel met een hoogte van 10 cm of meer te plaatsen.

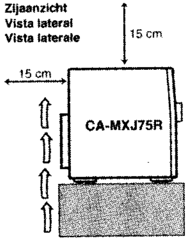
Precaución: ventilación correcta
Para evitar el riesgo de descargas eléctricas e incendio y prevenir posibles daños, instale el equipo en un lugar que cumpla los siguientes requisitos:
1 Parte frontal:
  Sin obstrucciones, espacio abierto.
2 Lados/parte superior/parte posterior:
  No debe haber ninguna obstrucción en las áreas mostradas por las dimensiones de la siguiente figura.
3 Parte inferior:
  Sitúe el equipo sobre una superficie nivelada. Mantenga un espacio adecuado para permitir el paso del aire y una correcta ventilación, situando el equipo sobre un soporte de 10 o más cm de altura.

Attenzione: Per una corretta ventilazione
Per prevenire il rischio di scosse elettriche e di incendio ed evitare possibili danni, collocare le apparecchiature nel modo seguente:
1 Parte anteriore:
  Nessun ostacolo e spazio libero.
2 Lati/Parte superiore/Retro:
  Lasciare libere le zone indicate dalle dimensioni di seguito.
3 Base:
  Collocare su una superficie piana. Consentire un'adeguata ventilazione dell'impianto appoggiandolo su un tavolinetto alto almeno 10 cm.

Front view
Vorderansicht
Face
Vooraanzicht
Vista frontal
Vista frontale



Side view
Seitenansicht
Côté
Zijaanzicht
Vista lateral
Vista laterale

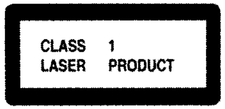


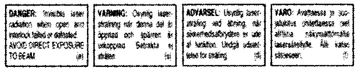
IMPORTANT FOR LASER PRODUCTS/ WICHTIGER HINWEIS FÜR LASER-PRODUKTE / IMPORTANT POUR LES PRODUITS LASER / BELANGRIJKE INFORMATIE VOOR LASERPRODUKTEN / IMPORTANTE PARA LOS PRODUCTOS LÁSER / IMPORTANTE PER I PRODOTTI LASER

REPRODUCTION OF LABELS/ANBRINGUNGSORTE FÜR LASER-PRODUKTE/REPRODUCTION DES ETIQUETTES/VERKLARING VAN DE LABELS/REPRODUCCIÓN DE ETIQUETAS/RIPRODUZIONE DELLE ETICHETTE

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
① KLASSIFIKATIONSETIKETTE AN DER RÜCKSEITE
① ETIQUETTE DE CLASSIFICATION, PLACÉE A L'ARRIÈRE DU COFFRET
① KLASSIFIKATIELABEL, OP DE ACHTERZIJDE VAN HET APPARAAT
① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA
① ETICHETTA DI CLASSIFICAZIONE, SITUATA SUL RIVESTIMENTO POSTERIORE

② WARNING LABEL, PLACED INSIDE THE UNIT
② WARNETIKETTE IM GERÄTEINNEREN
② ETIQUETTE D'AVERTISSEMENT PLACÉE À L'INTERIEUR DE L'APPAREIL
② WAARSCHUWINGSLABEL, IN HET APPARAAT
② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD
② ETICHETTA DI AVVERTENZA, SITUATA ALL'INTERNO DELL'APPARECCHIO





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1. CLASS 1 LASER PRODUCT
2. **DANGER**: Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user serviceable parts inside the Unit; leave all servicing to qualified service personnel.

1. LASER-PRODUKT DER KLASSE 1
2. **GEFAHR:** Unsichtbare Laserstrahlung bei Öffnung und fehlerhafter oder beschädigter Spre. Direkten Kontakt mit dem Strahl vermeiden!
3. **ACHTUNG:** Das Gehäuse nicht öffnen. Das Gerät enthält keinerlei Teile, die vom Benutzer gewartet werden können. Überlassen Sie Wartungsarbeiten bitte qualifizierten Kundendienst-Fachleuten.

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser invisible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

1. KLAS 1 LASERPRODUKT
2. **GEVAARLIJK**: Onzichtbare laserstraling wanneer open en de beveiliging faalt of uitgeschakeld is. Voorkom het direkt blootstaan aan de straal.
3. **VOORZICHTIG**: De bovenkap niet openen. Binnenin het toestel bevinden zich geen door de gebruiker te repareren onderdelen: laat onderhoud over aan bekwaam vakpersoneel.

1. PRODUCTO LASER CLASE 1
2. **PELIGRO**: En el interior hay radiación láser invisible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN**: No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODOTTO LASER CLASSE 1
2. **PERICOLO:** Radiazione laser invisibile quando l'apparecchio è aperto ed il dispositivo di sicurezza è guasto o disattivato. Evitare l'esposizione diretta ai raggi.
3. **ATTENZIONE:** Non aprire il coperchio superiore. Non vi sono parti adoperabili dall'utente all'interno di questo apparecchio; lasciare tutti i controlli a personale qualificato.

English

Introduction

We would like to thank you for purchasing one of our JVC products. Before operating this unit, read this manual carefully and thoroughly to obtain the best possible performance from your unit, and retain this manual for future reference.

About This Manual

This manual is organized as follows:

- **The manual mainly explains operations using the buttons and controls on the unit. You can also use the buttons on the remote control if they have the same or similar names (or marks) as those on the unit.**
  If operation using the remote control is different from that using the unit, it is then explained.
- Basic and common information that is the same for many functions is grouped in one place, and is not repeated in each procedure. For instance, we do not repeat the information about turning on/off the unit, setting the volume, changing the sound effects, and others, which are explained in the section "Common Operations" on pages 10 to 12.
- The following marks are used in this manual:

Gives you warnings and cautions to prevent from a damage or risk of fire/electric shock.
Also gives you information which is not good for obtaining the best possible performance from the unit.

Gives you information and hints you had better know.

Precautions

Installation

- Install in a place which is level, dry and neither too hot nor too cold — between 5°C (41°F) and 35°C (95°F).
- Install the unit in a location with adequate ventilation to prevent internal heat built-up in the unit.
- Leave sufficient distance between the unit and the TV.
- Keep the speakers away from the TV to avoid interference with TV.

DO NOT install the unit in a location near heat sources, or in a place subject to direct sunlight, excessive dust or vibration.

Power sources

- When unplugging from the wall outlet, always pull the plug, not the AC power cord.

DO NOT handle the AC power cord with wet hands.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting heating in the room
- In a damp room
- If the unit is brought directly from a cold to a warm place

Should this occur, the unit may malfunction. In this case, leave the unit turned on for a few hours until the moisture evaporates, unplug the AC power cord, and then plug it in again.

Others

- Should any metallic object or liquid fall into the unit, unplug the unit and consult your dealer before operating any further.
- If you are not going to operate the unit for an extended period of time, unplug the AC power cord from the wall outlet.

DO NOT disassemble the unit since there are no user serviceable parts inside.

If anything goes wrong, unplug the AC power cord and consult your dealer.

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English

English

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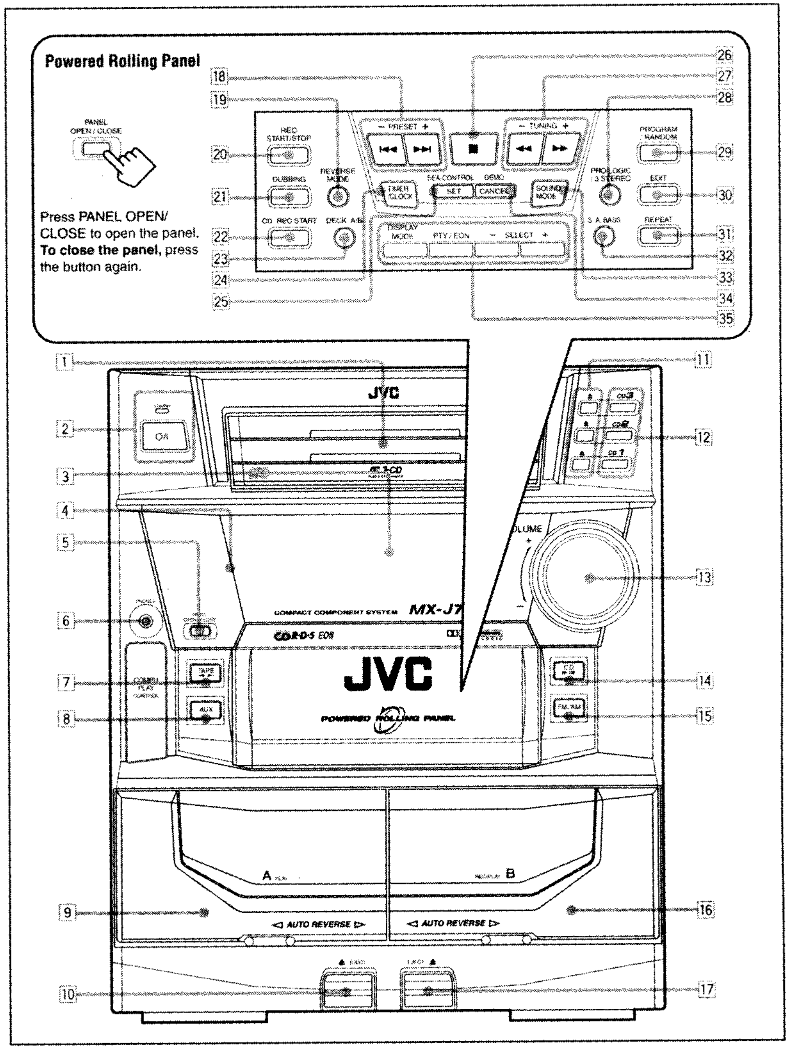
Location of the Buttons and Controls

Become familiar with the buttons and controls on your unit.



Powered Rolling Panel

Press PANEL OPEN/CLOSE to open the panel. **To close the panel,** press the button again.

PANEL OPEN/CLOSE
REC START/STOP
DUBBING
REVERSE MODE
CD REC START
DECK A/B
– PRESET +
TIMER CLOCK
SEA CONTROL
SET
DEMO
CANCEL
DISPLAY MODE
PTY/EON
– SELECT +
– TUNING +
SOUND MODE
PRO LOGIC / 3 STEREO
S.A.BASS
PROGRAM RANDOM
EDIT
REPEAT
JVC
VOLUME
COMPACT COMPONENT SYSTEM MX-J7
TAPE
AUX
CD
FM/AM
JVC
POWERED ROLLING PANEL
A
B
AUTO REVERSE
AUTO REVERSE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
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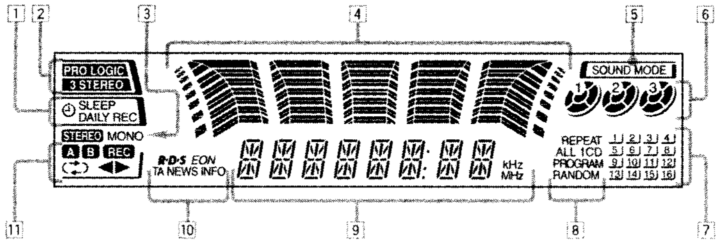
32
33
34
35

Continued

Display Window



See pages in the parentheses for details.

Front Panel

1 Disc trays
2 Ø/I (standby/on) button and STANDBY lamp (10)
3 Display window
4 Remote sensor
5 PANEL OPEN/CLOSE button (10)
Pressing this button also turns on the unit.
6 PHONES jack (11)
7 TAPE ◄► button and lamp (19)
Pressing this button also turns on the unit.
8 AUX button and lamp (10)
Pressing this button also turns on the unit.
9 Deck A cassette holder (19)
10 ▲ EJECT button for deck A (19)
11 ▲ (CD tray open/close) buttons (16)
Pressing one of these buttons also turns on the unit.
12 Disc number buttons and lamps (CD 1, CD 2, and CD 3) (16)
Pressing one of these buttons also turns on the unit.
13 VOLUME control (11)
14 CD ►/II (play/pause) button and lamp (16)
Pressing this button also turns on the unit.
15 FM/AM button and lamp (13)
Pressing this button also turns on the unit.
16 Deck B cassette holder (19)
17 EJECT ▲ button for deck B (19)

Powered Rolling Panel

18 PRESET – / + buttons (13)
|◄◄ / ►►| (reverse search/forward search) buttons (10, 12, 17, 24, 25)
19 REVERSE MODE button (19, 23, 24)
20 REC START/STOP button (22, 24)
21 DUBBING button (23)
22 CD REC START button (23, 24)
23 DECK A/B button (19)
24 TIMER/CLOCK button (10, 25)
25 SET button (10, 25)
SEA CONTROL button (12)
26 ■ (stop) button (16, 19)
27 TUNING – / + buttons (13)
◄◄ / ►► (fast left/fast right) buttons (12, 17, 19)
28 PRO LOGIC/3 STEREO button (20)
29 PROGRAM/RANDOM button (17, 18, 23)
30 EDIT button (24)
31 REPEAT button (18)
32 S. A. BASS (Signal Adaptive Bass) button and lamp (11)
33 SOUND MODE button (11)
34 CANCEL button (10, 18, 25 – 27)
DEMO button (9)
35 RDS operation buttons (14)
- DISPLAY MODE, PTY/EON, and SELECT – / + buttons

Display window

1 Timer indicators
- ⌚, SLEEP, REC, and DAILY indicators

2 Surround mode indicators
- PRO LOGIC and 3 STEREO indicators

3 Tuner operation indicators
- STEREO and MONO indicators

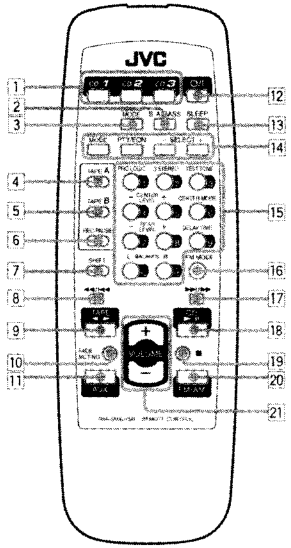
4 Audio level indicator
SEA (Sound Effect Amplifier) pattern indicator
5 SOUND MODE indicator
6 Disc indicators
7 CD track number indicators
8 CD play mode indicators
- REPEAT (ALL/1CD/1), PROGRAM, and RANDOM indicators

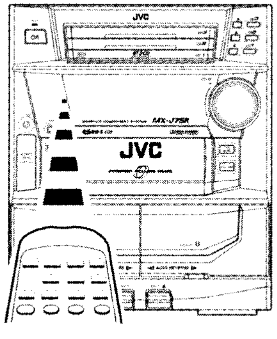
9 Main display
- Shows the source name, frequency, etc.

10 RDS operation indicators
- RDS, EON, and TA/NEWS/INFO indicators

11 Tape operation indicators
- A/B (operating deck), REC, (⇄) (reverse mode), and ◄► (tape direction) indicators

Remote Control





When using the remote control, point it at the remote sensor on the front panel.

Remote Control

1 Disc number buttons (CD 1, CD 2, and CD 3) (16)
Pressing one of these buttons also turns on the unit.
2 S. A. BASS (Signal Adaptive Bass) button (11)
3 SOUND MODE button (11)
4 TAPE A button (19)
5 TAPE B button (19)
6 REC PAUSE button (22)
7 SHIFT button (11, 20)
8 ◄◄ / |◄◄ (fast left/reverse search) button (17 – 19)
9 TAPE ◄► button (19)
Pressing this button also turns on the unit.
10 FADE MUTING button (11)
11 AUX button (10)
Pressing this button also turns on the unit.
12 Ø/I (standby/on) button (10)
13 SLEEP button (27)
14 RDS operation buttons (14)
- DISPLAY MODE, PTY/EON, and SELECT – / + buttons

15 Number buttons (13, 17)
Sound control buttons (11, 20)
16 FM MODE button (13)
17 ►►| / ►► (forward search/fast right) button (17 – 19)
18 CD ►/II button (16)
Pressing this button also turns on the unit.
19 ■ (stop) button (16, 19)
20 FM/AM button (13)
Pressing this button also turns on the unit.
21 VOLUME + / – button (11, 21)

Getting Started

Continued

Unpacking

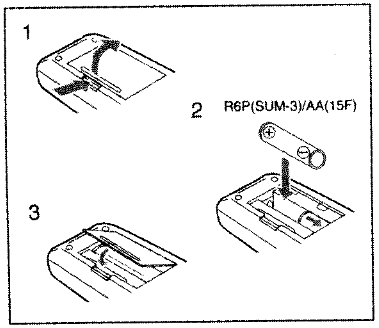
After unpacking, check to be sure that you have all the following items.
The number in the parentheses indicates the quantity of the pieces supplied.

- AM loop antenna (1)
- FM antenna (1)
- Remote control (1)
- Batteries (2)

If any is missing, consult your dealer immediately.

Putting the Batteries into the Remote Control

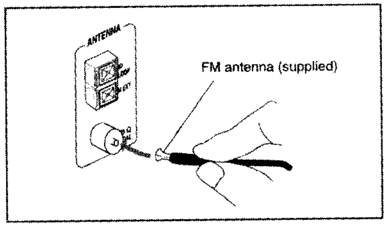
Insert the batteries — R6P(SUM-3)/AA(15F) — into the remote control, by matching the polarity (+ and –) on the batteries with the + and – markings on the battery compartment.
When the remote control can no longer operate the unit, replace both batteries at the same time.


1
2
R6P(SUM-3)/AA(15F)
3

- DO NOT use an old battery together with a new one.
- DO NOT use different types of batteries together.
- DO NOT expose batteries to heat or flame.
- DO NOT leave the batteries in the battery compartment when you are not going to use the remote control for an extended period of time. Otherwise, it will be damaged from battery leakage.

Connecting Antennas

FM antenna


ANTENNA
FM antenna (supplied)

1 **Attach the FM antenna to the FM 75 COAXIAL terminal.**

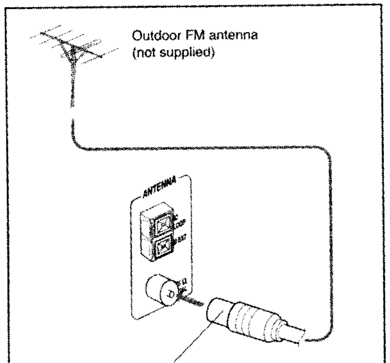
2 **Extend the FM antenna.**

3 **Fasten it up in the position which gives you the best reception.**

About the supplied FM antenna
The FM antenna supplied with this unit can be used as temporary measure. If reception is poor, you can connect an outdoor FM antenna.

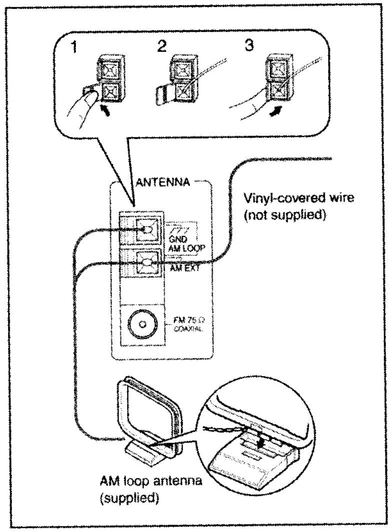
To connect an outdoor FM antenna

Before connecting it, disconnect the supplied FM antenna.


Outdoor FM antenna
(not supplied)
ANTENNA

A 75   antenna with coaxial type connector (DIN 45325) should be used.

AM (MW/LW) antenna


1
2
3
ANTENNA
GND
AM LOOP
AM EXT
FM 75 Ω COAXIAL
Vinyl-covered wire
(not supplied)
AM loop antenna
(supplied)

1 **Connect the AM loop antenna to the AM LOOP terminals as illustrated.**

2 **Turn the AM loop antenna until you have the best reception.**

To connect an outdoor AM antenna

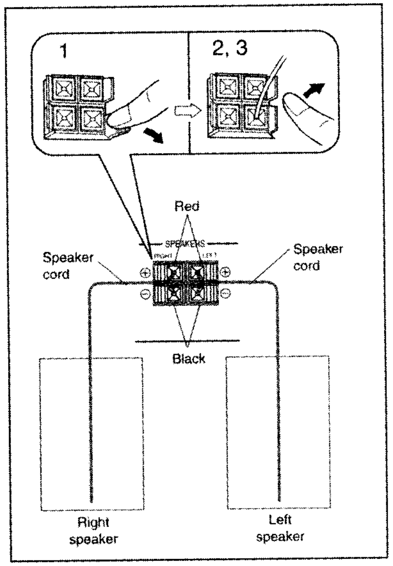
When reception is poor, connect a single vinyl-covered wire to the AM EXT terminal and extend it horizontally. (The AM loop antenna must remain connected.)

For better reception of both FM and AM (MW/LW)
- Make sure the antenna conductors do not touch any other terminals and connecting cords.
- Keep the antennas away from metallic parts of the unit, connecting cords, and the AC power cord.

Connecting Speakers

You can connect a pair of front speakers, one center speaker, a pair of rear speakers, and one subwoofer.

To connect front speakers


1
2, 3
Red
SPEAKERS
RIGHT
LEFT
Speaker cord
Speaker cord
Black
Right speaker
Left speaker

1 **Press and hold the clamp of the speaker terminal on the rear of the unit.**

2 **Insert the end of the speaker cord into the terminal.**
Match the polarity of the speaker terminals: Red (+) to red (+) and black (–) to black (–).

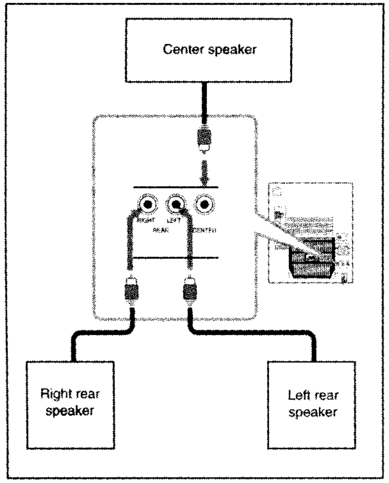
3 **Release the finger from the clamp.**

IMPORTANT: Use only speakers with the same speaker impedance as indicated by the speaker terminals on the rear of the unit.

Continued

To connect a center speaker and rear speakers

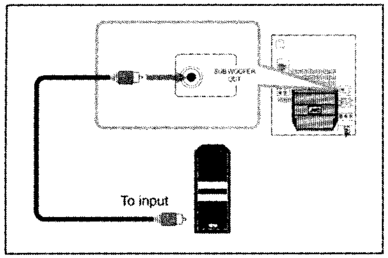
By connecting a center speaker and rear speakers, you can enjoy Dolby Surround equipped with this unit.


Center speaker
RIGHT
LEFT
REAR
CENTER
Right rear speaker
Left rear speaker

- Connect the right rear speaker to the REAR RIGHT jack.
- Connect the left rear speaker to the REAR LEFT jack.
- Connect the center speaker to the CENTER jack.

To connect a subwoofer

By connecting a subwoofer, you can enhance the bass.


SUBWOOFER OUT
To input

Connect the input jack of a powered subwoofer to the SUB WOOFER OUT jack, using a monaural audio cord (not supplied).

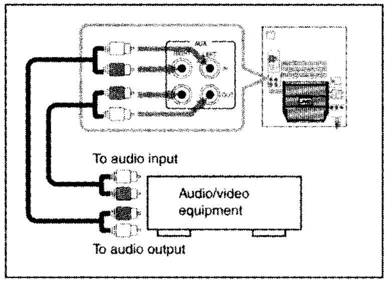
Connecting Other Equipment

You can connect both analog and digital equipment.

- DO NOT connect any equipment while the power is on.
- DO NOT plug in any equipment until all connections are complete.

To connect an analog component

Be sure that the plugs of the audio cords are color coded: White plugs and jacks are for left audio signals, and red ones for right audio signals.


AUX
IN
OUT
To audio input
Audio/video equipment
To audio output

By using audio cords (not supplied), connect:

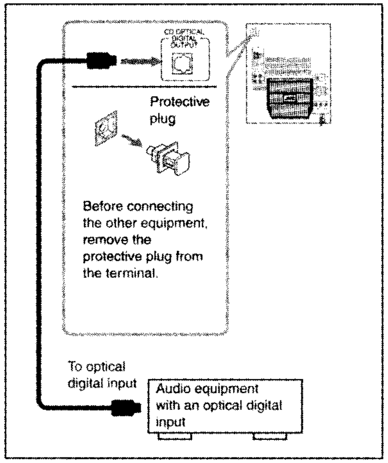
- Between the audio input jacks on the other equipment and AUX OUT jacks: For recording on the other equipment.
- Between the audio output jacks on the other equipment and AUX IN jacks: For playing the other equipment.

When connecting a VCR

Since this unit is not equipped with the video input and output jacks, connect this unit and the VCR only using the audio cords, then connect the VCR and the TV set directly using the video cord(s).

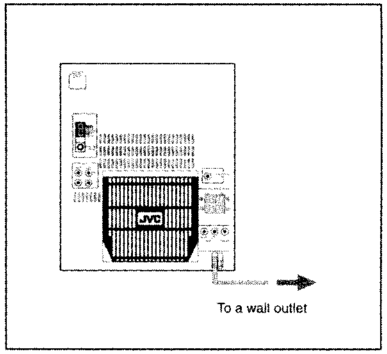
To connect audio equipment with an optical digital input terminal

You can record CD sound onto the connected digital equipment.


CD OPTICAL DIGITAL OUTPUT
Protective plug
Before connecting the other equipment, remove the protective plug from the terminal.
To optical digital input
Audio equipment with an optical digital input

Connect an optical digital cord (not supplied) between the optical digital input terminal on the other equipment and the CD OPTICAL DIGITAL OUTPUT terminal.

NOW, you can plug in the unit and other connected equipment FINALLY!


To a wall outlet

When connecting the AC power cord into a wall outlet, the unit automatically starts display demonstration.

To stop the display demonstration, press any button on the unit or the remote control.

To start the display demonstration manually
Press and hold DEMO for more than 2 seconds.

To stop the demonstration, press any button.

Common Operations

Continued

Setting the Clock

Before operating the unit any further, first set the clock built in this unit.

1 Press PANEL OPEN/CLOSE.

The unit is turned on and the Powered Rolling Panel opens automatically.

PANEL OPEN/CLOSE

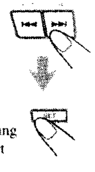
2 Press TIMER/CLOCK.

TIMER/CLOCK

0:00

The hour digits start flashing on the display.

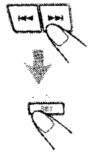
3 Press ⏮ or ⏭ to adjust the hour, then press SET.



19:00

- If you want to correct the hour after pressing SET, press CANCEL. The hour digits start flashing again.

4 Press ⏮ or ⏭ to adjust the minute, then press SET.



CLOCK OK

To adjust the clock again

If you have adjusted the clock before, you need to press TIMER/CLOCK repeatedly until the clock setting mode is selected.

- Each time you press the button, the timer/clock setting modes change as follows:

→ DAILY → ON TIME → REC →
Canceled ← Clock setting (The hour digits start flashing.) ← ON TIME ←

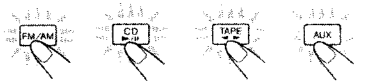
If there is a power failure

The clock loses the setting and is reset to "0:00." You need to set the clock again.

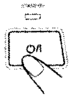
Turning On the Power and Selecting the Sources

When you press the play button for a particular source (FM/AM, CD ▶/⏸, AUX, and TAPE ◀ ▶), the unit turns on, and the Powered Rolling Panel opens automatically (and the unit starts playing the source if it is ready — COMPU PLAY CONTROL).

To listen to the FM/AM (MW/LW) broadcasts, press FM/AM. (See pages 13 – 15.)
To play back CDs, press CD ▶/⏸. (See pages 16 – 18.)
To play back tapes, press TAPE ◀ ▶. (See page 19.)
To select the external equipment as the source, press AUX.



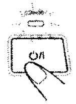
To turn on the unit without playing, press ⏻/I so that the STANDBY lamp goes off.



WELCOME

The Powered Rolling Panel opens automatically.

To turn off the unit (on standby), press ⏻/I again so that the STANDBY lamp lights up.
The Powered Rolling Panel also closes.
A little power is always consumed even while the unit is on standby.



To switch off the power supply completely, unplug the AC power cord from the AC outlet.

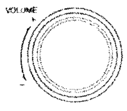
When you unplug the AC power cord or if a power failure occurs

The clock is reset to "0:00" right away, while the tuner preset stations (see page 13) will be erased in a few days.

Adjusting the Volume

You can adjust the volume level only while the unit is turned on.

Turn VOLUME clockwise to increase the volume or counterclockwise to decrease it.



VOL - 16

When using the remote control, press VOLUME + to increase the volume or press VOLUME – to decrease it.

For private listening

Connect a pair of headphones to the PHONES jack. No sound comes out of the speakers. Be sure to turn down the volume before connecting or putting on headphones.

DO NOT turn off (on standby) the unit with the volume set to an extremely high level; otherwise, a sudden blast of sound can damage your hearing, speakers and/or headphones when you turn on the unit or start playing any source next time.
REMEMBER you cannot adjust the volume level while the unit is on standby.

To turn down the volume level temporarily

Press FADE MUTING on the remote control.
The volume level gradually decreases to "0."

FADE MUTING

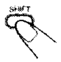
To restore the sound, press the button again.

Adjusting the Front Speaker Output Balance

If the sounds you hear from the front right and left speakers are unequal, you can adjust the speaker output balance.

On the remote control ONLY:

1 Press and hold SHIFT.



2 Press BALANCE L/R button.

- Pressing BALANCE L decreases the right channel output.
- Pressing BALANCE R decreases the left channel output.

3 Release SHIFT.

Reinforcing the Bass Sound

The Signal Adaptive Bass function provided for this unit can enhance the bass sound while listening to any source at low volume.
You can use this function only for playback.

To turn on the function, press S. A. BASS repeatedly until "SA-BASS1" or "SA-BASS2" appears on the display.

SA-BASS 1

The S. A. BASS lamp (the button itself) also lights up.

- Each time you press the button, the Signal Adaptive Bass level applied to the playback sound changes as follows:

→ SA-BASS1 → SA-BASS2 →
← OFF (Canceled) ←

When you select "SA-BASS2," the bass sound level is enhanced much more than when you select "SA-BASS1."

- While playing back some sources, the level difference between "SA-BASS1" and "SA-BASS2" may not be distinct.

To turn off the function, press the button repeatedly until "OFF" appears on the display.

If you want to check the Signal Adaptive Bass level currently selected

While the S. A. BASS lamp is lit, press S. A. BASS once so that the current level appears for a while.

Selecting the Sound Modes

You can select one of the 6 preset sound modes (3 surround modes and 3 SEA – Sound Effect Amplifier – modes). The sound modes can be applied only to playback sounds, and cannot be used for recording.

To select the sound modes, press SOUND MODE until the sound mode you want appears on the display. The SOUND MODE indicator also lights up on the display.

D.CLUB

- Each time you press the button, the sound modes change as follows:

→ D.CLUB (Dance CLUB) → HALL → STADIUM → ROCK → POP → CLASSIC → MANUAL1 → MANUAL2 → MANUAL3 → OFF (Canceled) →

Surround modes *:	
D.CLUB:	Increases resonance and bass.
HALL:	Adds depth and brilliance to the sound.
STADIUM:	Adds clarity and spreads the sound, like in an outdoor stadium.
SEA modes:	
ROCK:	Boosts low and high frequency. Good for acoustic music.
POP:	Good for vocal music.
CLASSIC:	Good for classical music.
Manual modes:	
MANUAL1/2/3:	Your individual mode stored in memory. See "Creating Your Own Sound Mode — Manual Mode."
OFF:	Cancels the sound mode.

* Surround elements are added to the SEA elements to create a being-there feeling in your room.
When one of these modes is selected, the SOUND MODE indicator lights up as — SOUND MODE

While one of the SEA modes including manual modes (SEA elements without surround elements) is selected, it lights up as — SOUND MODE

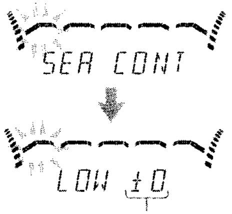
Creating Your Own Sound Mode — Manual Mode

You can change SEA pattern to suit your preference. These changed settings can be stored in the MANUAL 1, 2, and 3 modes.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- **If you want to add the surround elements in your SEA pattern,** select one of the surround modes (D.CLUB, HALL, or STADIUM) before starting the procedure below.

On the unit ONLY:

1 Press and hold SEA CONTROL until "SEA CONT" appears on the display.



Current level appears.

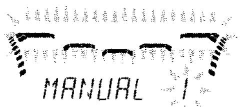
2 Adjust the SEA pattern.

1) **Press |◀◀ or ▶▶| to select the frequency range to adjust (LOW, MID, HIGH).**

2) **Press ◀◀ or ▶▶ to adjust the level (–3 to +3) of the selected frequency range.**

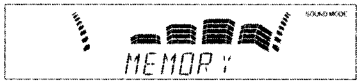
3) **Repeat steps 1) and 2) to adjust the level of the other frequency ranges.**

3 Press SEA CONTROL again.



4 Press |◀◀ or ▶▶| to select one of the MANUAL 1, 2, and 3 modes into which you want to store the SEA pattern.

5 Press SEA CONTROL again.



The SOUND MODE indicator also lights up.
The SEA pattern you have created are stored into the MANUAL mode selected in the above step.

To use your own sound mode

Select MANUAL 1, 2, or 3 mode when using the sound modes. See "Selecting the Sound Modes" on page 11.

Listening to FM and AM (MW/LW) Broadcasts

Tuning in a Station

On the unit ONLY:

1 Press FM/AM.
The unit automatically turns on and tunes in the previously tuned station (either FM or AM – MW/LW). The Powered Rolling Panel automatically opens.
- Each time you press the button, the band alternates between FM and AM (MW/LW).

2 Press and hold TUNING – / + for more than 1 second.
The unit starts searching for stations and stops when a station of sufficient signal strength is tuned in.
If a program is broadcast in stereo, the STEREO indicator lights up.

To stop during searching, press TUNING – / +.

When you press TUNING – / + briefly and repeatedly
The frequency changes step by step.

To change the FM reception mode

When an FM stereo broadcast is hard to receive or noisy, press FM MODE on the remote control so that the MONO indicator lights up on the display. Reception improves.

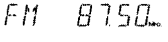
To restore the stereo effect, press FM MODE again so that the MONO indicator goes off.
In this stereo mode, you can hear stereo sounds when a program is broadcast in stereo.

Presetting Stations

You can preset 30 FM and 15 AM (MW/LW) stations.
In some cases, test frequencies have been already memorized for the tuner since the factory examined the tuner preset function before shipment. This is not a malfunction. You can preset the stations you want into memory by following the presetting method.

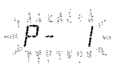
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

1 Tune in the station you want to preset.
- See "Tuning in a Station" above.

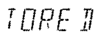


2 Press SET.

3 Press PRESET – / + to select a preset number.



4 Press SET again.



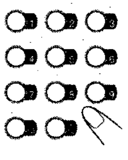
The tuned station in step 1 is stored in the preset number selected in step 3.
- Storing a new station on a used number erases the previously stored one.

When you unplug the AC power cord or if a power failure occurs
The preset stations will be erased in a few days. If this happens, preset the stations again.

Tuning in a Preset Station

1 Press FM/AM.
The unit automatically turns on and tunes in the previously tuned station (either FM or AM – MW/LW). The Powered Rolling Panel automatically opens.
- Each time you press the button, the band alternates between FM and AM (MW/LW).

2 Select a preset number.
On the unit:
Press PRESET – / +.
On the remote control:
Press the number buttons.
For preset number 5, press 5.
For preset number 15, press +10, then 5.
For preset number 20, press +10, then 10.
For preset number 25, press +10, +10, then 5.



Receiving FM Stations with RDS

Continued

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

With the unit, you can receive the following types of RDS signals.

PS (Program Service):
Shows commonly known station names.

PTY (Program Type):
Shows types of broadcast programs.

RT (Radio Text):
Shows text messages the station sends.

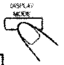
EON (Enhanced Other Networks):
Provides the information about the types of the programs sent by other RDS stations.

More about RDS
- Some FM stations and AM (MW/LW) stations do not provide RDS signals.
- RDS services vary among FM RDS stations. For details on RDS services in your area, check with local radio stations.
- RDS may not work correctly if the received station is not transmitting the signals properly or if the signal strength is weak.

Changing the RDS Information

You can see RDS information on the display while listening to an FM station.

Press DISPLAY MODE.
- Each time you press the button, the display changes to show the following information:



→ PS → PTY → RT
(Program Service) (Program Type) (Radio Text)
Station frequency ←
(or preset channel no.)

If no PS, PTY, or RT signals are sent by a station
"NO PS," "NO PTY," or "NO RT" appears in the main display.

If the unit takes time to show the RDS information received from a station
"WAIT PS", "WAIT PTY", or "WAIT RT" may appear on the display.

Searching for Programs by PTY Codes (PTY Search)

One of the advantages of RDS is that you can locate a particular kind of program by specifying the PTY codes.
- For details on the PTY codes, see "Additional Information" on page 28.

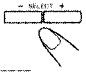
To search for a program using the PTY codes
REMEMBER you must preset FM RDS stations to use the EON function. If not yet done, see page 13.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

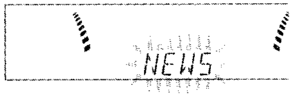
1 Press PTY/EON until "PTY" and "SELECT" alternately appears on the display.

- Each time you press the button, RDS operation mode changes as follows:

→ PTY SELECT → EON SELECT
Canceled ←

2 Press SELECT – / + until the PTY code you want appears on the display.





- Each time you press the button, the PTY codes change as follows:

NEWS ⇄ AFFAIRS ⇄ INFO ⇄ SPORT ⇄
EDUCATE ⇄ DRAMA ⇄ CULTURE ⇄
SCIENCE ⇄ VARIED ⇄ POP M ⇄ ROCK M ⇄
M.O.R. M ⇄ LIGHT M ⇄ CLASSICS ⇄
OTHER M ⇄ WEATHER ⇄ FINANCE ⇄
CHILDREN ⇄ SOCIAL A ⇄ RELIGION ⇄
PHONE IN ⇄ TRAVEL ⇄ LEISURE ⇄ JAZZ ⇄
COUNTRY ⇄ NATIONAL ⇄ OLDIES ⇄
FOLK M ⇄ DOCUMENT ⇄ TRAFFIC ⇄
(back to the beginning)

3 Press PTY/EON once again.

While searching, "SEARCH" and the selected PTY code alternate on the display.
The unit searches 30 preset FM stations, stops when it finds the one you have selected ("FOUND" appears), and tunes in that station.
- If no program is found, "NOT" and "FOUND" alternately appears on the display and the unit returns to the last received station.

To stop searching any time during the process
Press PTY/EON while searching.

Switching to a Program Type of Your Choice Temporarily

By receiving EON data sent by FM RDS stations, the EON function allows the unit to switch temporarily to a broadcast program of your choice (TA, NEWS, and INFO) from a different station.
The EON function only works when you are listening to a preset FM RDS stations providing EON data.
- The EON indicator lights while receiving a station with EON data.

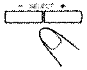
To activate the EON function
REMEMBER you must preset FM RDS stations to use the EON function. If not yet done, see page 13.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

1 Press PTY/EON until "EON" and "SELECT" alternately appear on the display.

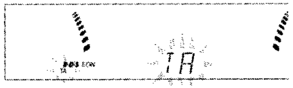
- Each time you press the button, RDS operation mode changes as follows:

→ PTY SELECT → EON SELECT
Canceled ←

2 Press SELECT – / + until the EON data type you want appears on the display.



The selected EON data type indicator also flashes.

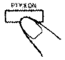


- Each time you press the button, the EON data types change as follows:

→ TA ⇄ NEWS ⇄ INFO
OFF ←
(Canceled)

TA:	Traffic announcement
NEWS:	News
INFO:	Program the purpose of which is to impart advice in the widest sense.
OFF:	The EON function is canceled. The EON data type indicator (TA, NEWS, INFO) goes off.

3 Press PTY/EON once again.



The EON data type indicator stops flashing and remains lit.
Now, the EON function is activated. See "How the EON function actually works."

How the EON function actually works:

CASE 1

If there is no station broadcasting the program you have selected
The unit continues tuning in the current station.

⬇

When a station starts broadcasting the program you have selected, the unit automatically switches to the station. The indicator of received PTY code starts flashing.

⬇

When the program is over, "EON END" appears in the main display, and the unit goes back to the previously tuned station, but the EON function still remains activated.

CASE 2

If there is a station broadcasting the program you have selected
The unit tunes in the program. The indicator of received PTY code starts flashing.

⬇

When the program is over, "EON END" appears in the main display, and the unit goes back to the previously tuned station, but the EON function still remains activated.

CASE 3

If the FM station you are listening to is broadcasting the program you have selected
The unit continues to receive the station but the indicator of received PTY code starts flashing.

⬇

When the program is over, the indicator of received PTY code stops flashing and remains lit, but the EON function still remains activated.

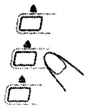
More about the EON function
- EON data sent from some stations may not be compatible with this unit. In this case, the EON function may not work correctly.
- While listening to a program tuned in by the EON function, the station does not change even if another network station starts broadcasting a program of the same EON data.
- The EON function is canceled when you change the source to CD, TAPE, or AUX, while it is temporarily canceled when you change the source to AM.

Playing Back CDs

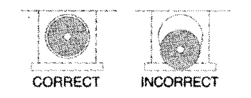
Continued

Loading CDs

1 Press ≜ for the disc tray (CD 1 to 3) you want to load a CD onto.
The unit automatically turns on and the disc tray comes out. The Powered Rolling Panel also opens automatically.

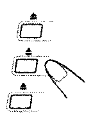


2 Place a disc correctly on the circle of the disc tray, with its label side up.



- When using a CD single (8 cm), place it on the inner circle of the disc tray.

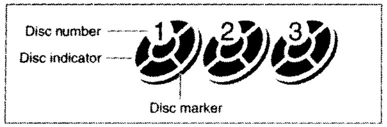
3 Press the same ≜ you have pressed in step 1.
The disc tray closes, and the corresponding disc number indicator (CD 1 to CD 3) lights up on the display.



4 Repeat steps 1 to 3 to place other CDs.

When loading more than one CD continuously
When you press ≜ for the next tray you want to place another CD onto, the first disc tray automatically closes and then the next tray comes out.

About the disc indicators
Each disc indicator corresponds to the disc tray of the same number.



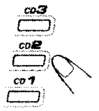
- The disc marker lights up for the disc number you have selected.
- The disc indicator flashes while the corresponding CD is being played.
- The disc indicator goes off when the unit has detected that there is no CD on the corresponding disc tray.

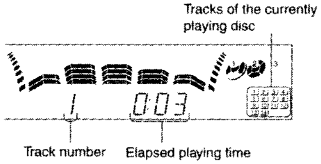
Playing Back the Entire Discs — Continuous Play

You can play CDs continuously.

1 Load CDs.

2 Press one of the disc number buttons (CD 1, CD 2, and CD 3) for the disc you want to play.
CD play starts from the first track of the selected disc.





- Pressing CD ►/II instead of the disc number buttons starts playing back if a CD is on the trays.

To stop during play, press ■.

To remove the disc, press ≜ for the corresponding disc tray.

CD playback sequence
When 3 CDs are loaded on the disc trays, they are played in one of the following sequences.
- When CD 1 is pressed : CD 1 ⇨ CD 2 ⇨ CD 3 (then stops)
- When CD 2 is pressed : CD 2 ⇨ CD 3 ⇨ CD 1 (then stops)
- When CD 3 is pressed : CD 3 ⇨ CD 1 ⇨ CD 2 (then stops)

* When only 2 CDs are loaded, they are played in the same order, but the disc tray without a CD is skipped.

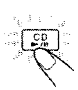
Basic CD Operations

While playing a CD, you can do the following operations.

To exchange CDs during playback of another

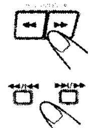
Press ≜ corresponding to a CD, not playing or selected currently, to eject and exchange the CD.
If you exchange CDs during play, the current play will not stop until all CDs you have exchanged are played.

To stop play for a moment



Press CD ►/II.
While pausing, the elapsed playing time flashes on the display.
To resume play, press CD ►/II again.

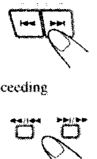
To locate a particular point in a track



During play, press and hold ◄◄ or ►►.
- ◄◄: Fast reverses the disc.
- ►►: Fast forwards the disc.

When using the remote control, press and hold ◄◄ / |◄◄ or ►►| / ►►.

To go to another track

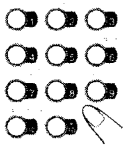


Press |◄◄ or ►►| repeatedly before or during playback.
- |◄◄: Goes back to the beginning of the current or previous tracks.
- ►►|: Skips to the beginning of the next or succeeding tracks.

When using the remote control, press ◄◄ / |◄◄ or ►►| / ►► before playing.

If you press and hold |◄◄ / ►►| (or ◄◄ / |◄◄ or ►►| / ►► before playing)
You can change the tracks continuously.

To go to another track directly using the number buttons



Pressing the number button(s) before or during play allows you to start playing the track number you want.
Ex.: For track number 5, press 5.
For track number 15, press +10, then 5.
For track number 20, press +10, then 10.
For track number 32, press +10, +10, +10, then 2.

Programming the Playing Order of the Tracks — Program Play

You can arrange the order in which the tracks play before you start playing. You can program up to 32 tracks.
- To use Repeat play (see page 18) for Program play, press REPEAT after starting Program play.

1 Load CDs.
- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

2 Press PROGRAM/RANDOM repeatedly until "PROGRAM" appears on the display.

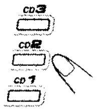
PROGRAM /RANDOM

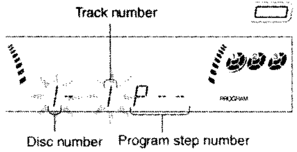
- If a program has been stored in memory, the program is called up.

- Each time you press the button, CD play mode changes as follows:

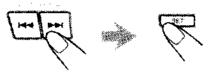
Program Play ──► Random Play ──► Continuous Play ──► (back to Program Play)

3 Press one of the disc number buttons (CD 1, CD 2, and CD 3) to select the disc number you want to play.

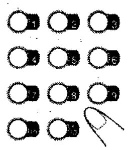




4 Select a track from the CD selected in the above step.
On the unit:
Press |◄◄ or ►►| to select the track number, then press SET.



On the remote control:
Press the number buttons.
- For how to use the number buttons, see "To go to another track directly using the number buttons" described to the left.

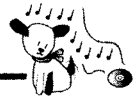


5 Program other tracks you want.
- To program tracks from the same disc, repeat step 4.
- To program tracks from a different disc, repeat steps 3 and 4.

6 Press CD ►/II.
The tracks are played in the order you have programed.

To stop during play, press ■.

To exit from Program play mode, press PROGRAM/RANDOM repeatedly again before or after play so that the unit enters another play mode. (The program you have made is stored in memory until you turn off the unit or erase the program.)



To check the program contents

Before playing, you can check the program contents by pressing ◄◄ / I◄◄ or ►►I / ►► on the remote control.

- ►►I / ►►: Shows the programed tracks in the programed order.
- ◄◄ / I◄◄: Shows them in the reverse order.

To modify the program

Before play, you can erase the programed tracks shown on the display by pressing CANCEL.

- Each time you press the button, the programed track shown on the display is erased from the program.

To add tracks in the program before play, simply select the track numbers you want to add by following step 4 of the programming procedure on page 17.

To erase the entire program before or after play, press ■. "PROGRAM" appears on the display.

- Ejecting a CD will also erase the track numbers programed from the ejected CD.

If you try to program a 33rd step

"FULL" will appear on the display.

If your entry is ignored

You have tried to program a track from an empty tray, or a track number that does not exist on the CD (for example, selecting track 14 on a CD that only has 12 tracks). Such entries are ignored.

Playing at Random — Random Play

The tracks of all loaded CDs will play at random.

- To use Repeat play for Random play, press REPEAT after starting Random play.

1 **Prepare CDs.**

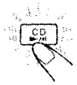
- If the current playing source is not the CD player, press CD ►/II, then ■ before going to the next step.

2 **Press PROGRAM/RANDOM repeatedly until "RANDOM" appears on the display.**

- Each time you press the button, CD play mode changes as follows:

Program Play ——► Random Play
└——— Continuous Play ◄———┘

3 **Press CD ►/II.**



The tracks are played at random.

Random play ends when all the tracks are played once.

To stop during play, press ■.

- Random play also stops when one of the disc trays is opened.

To exit from Random play mode, press PROGRAM/RANDOM repeatedly again before or after play so that the unit enters another play mode.

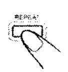
Even if you press I◄◄ (or ◄◄ / I◄◄ on the remote control)

You cannot go back to the previous tracks during Random play.

- If you press ►►I (or ►►I / ►► on the remote control), you can go to next random tracks.

Repeating Tracks or CDs — Repeat Play

You can have all the CDs, the program or the individual track currently playing repeat as many times as you like.



To repeat play, press REPEAT during or before playing. To use Repeat play for Program play and Random play, press the button after starting playback.

- Each time you press the button, Repeat play mode changes as follows, and the following indicator lights up on the display:

┌► REPEAT ALL ——► REPEAT 1CD —┐
└— Canceled ◄———— REPEAT 1 ◄—┘
(Continuous play)

REPEAT ALL: Repeats all the tracks on all the CDs (continuously or at random), or all the tracks in the program.

REPEAT 1CD*: Repeats all the tracks on one CD.

REPEAT 1: Repeats one track on one CD.

* REPEAT 1CD is not used for Program play and Random play.

To cancel Repeat play, press REPEAT repeatedly until the REPEAT indicator (REPEAT ALL, REPEAT 1CD, or REPEAT 1) goes off from the display.

- Repeat play is also canceled when you select Program play or Random play.

Prohibiting Disc Ejection — Tray Lock

You can prohibit CD ejection from the unit and can lock discs.

- This operation is possible only using the buttons on the unit.

To prohibit disc ejection, press ▲ for any disc tray while holding ■. (If there is any disc tray opened, close it first.) "LOCKED" appears for a while, and the loaded CDs are locked.

To cancel the prohibition and unlock the CDs, press ▲ for any disc tray while holding ■.

"UNLOCKED" appears for a while, and the loaded CDs are unlocked.

If you try to eject CDs

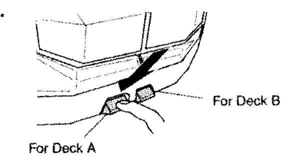
"LOCKED" appears to inform you that the Tray Lock is in use.

Playing Back Tapes

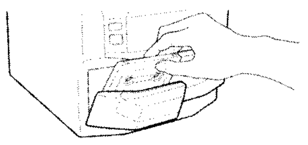
You can play back type I, type II, and type IV tapes without changing any settings.

Playing Back a Tape

1 **Press EJECT (▲) for the deck you want to use.**



2 **Put a cassette in, with the exposed part of the tape down.**

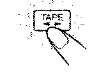


3 **Close the cassette holder gently.**

If you put cassettes in both decks A and B, the last deck you have put a cassette into is selected.

To operate the other deck, press DECK A/B (or TAPE A or TAPE B on the remote control).

4 **Press TAPE ◄ ►.**



The tape play starts and the tape direction indicator (◄ ►) starts flashing slowly to indicate the tape running direction.

- Each time you press the button, the tape direction changes.
  - ► : plays the front side.
  - ◄ : plays the reverse side.

When the tape plays to the end, the deck automatically stops if the Reverse Mode is not on. (See "To play both sides repeatedly — Reverse Mode.")

To stop during play, press ■.

To operate the other deck, press DECK A/B (or TAPE A or TAPE B on the remote control), then TAPE ◄ ►.

To fast wind to the left or to the right, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) while the tape is not running.

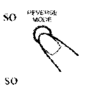
The tape direction indicator (◄ ►) starts flashing quickly on the display.

To remove the cassette, press ▲ EJECT for deck A or EJECT ▲ for deck B.

To play both sides repeatedly — Reverse Mode

Reverse Mode works for both decks at the same time.

When it is in use, the tape automatically reverses at the end of a side and the unit starts playing the other side of the tape, and repeats the same process.



To use Reverse Mode, press REVERSE MODE so that the Reverse Mode indicator on the display lights up like — (⇄)

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator on the display lights up like — ⇄

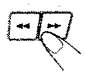
When Reverse Mode is on with cassettes in both decks A and B

After the reverse (◄) side of the tape finishes playing, the tape in the other deck starts playing.

Locating the Beginning of a Song — Music Scan

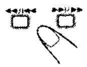
You can use Music Scan to locate the beginning of a song. Music Scan searches for blank portions that usually separate recorded songs, then plays the next song.

To find the beginning of the current song



During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) **in the opposite direction** to the tape play.

The tape direction indicator of the opposite direction to the tape play starts flashing slowly and quickly alternately.



Searching stops automatically at the beginning of the current song, and the current song starts automatically.

To find the beginning of the next song

During play, press ◄◄ / ►► (◄◄ / I◄◄ or ►►I / ►► on the remote control) **in the same direction** as the tape play.

The tape direction indicator of the same direction as the tape play starts flashing slowly and quickly alternately.

Searching stops automatically at the beginning of the next song, and the next song starts automatically.

Music Scan works by detecting a 4-second long blank between each song, so it will not work well in the following cases

- No blank at the beginning of a song.
- Noise (often caused by much use or poor quality dubbing) which fills the blank.
- Long, very soft passages or pauses in a song.

> The use of the C-120 or thinner tape is not recommended, since characteristic deterioration may occur and this tape easily jams in the pinch-rollers and the capstans.

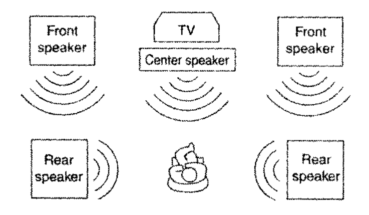
Using Dolby Surround

Continued

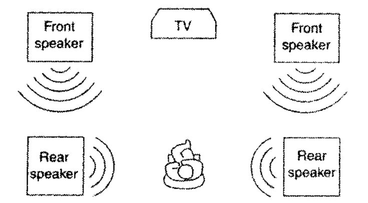
Dolby Surround has been developed to reproduce the important elements of the acoustic surround at home.
To listen to the sound of video software bearing the mark DOLBY SURROUND * which includes the same encoded surround information as found in Dolby Stereo films, the unit can provide you with Dolby Surround decoder.
This unit features two ways to decode a Dolby Surround encoded signal, **Dolby Pro Logic** and **Dolby 3 Stereo**.

Dolby Pro Logic can be used when the front speakers and rear speakers are connected to this unit (regardless of the center speaker connection).
Dolby 3 Stereo can be used when left, center, and right speakers are connected, but no rear speaker is used.

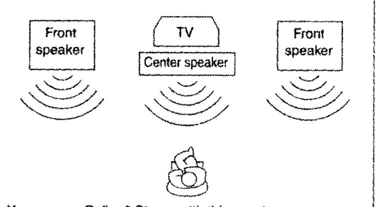
Speaker configuration



You can use Dolby Pro Logic (or Dolby 3 Stereo if you want) with this speaker configuration.



You can use Dolby Pro Logic in Center Phantom mode with this speaker configuration.



You can use Dolby 3 Stereo with this speaker configuration.

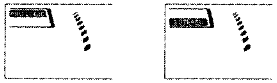
Preparing for Dolby Surround

Once you have finished adjustments for Dolby Surround, you can use the same adjustments every time you want to use each Dolby Surround mode – Dolby Pro Logic and Dolby 3 Stereo.

On the remote control ONLY:

1 Press and hold SHIFT until the following procedure is finished.

2 Press PRO LOGIC or 3 STEREO whichever you want to use.
The PRO LOGIC or 3 STEREO indicator lights up on the display
- Each time you press the button, the indicator turns on and off. (Respective Dolby Surround also turns on and off.)



- When Dolby Surround is activated, the sound mode is canceled temporarily.

3 Press CENTER MODE repeatedly to select the proper center mode.
- Each time you press the button, the center mode changes as follows.

→ PHANTOM** → NORMAL → WIDE → OFF →

PHANTOM: Select this mode when you do not use a center speaker. The center speaker channel signals are output through the front speakers.
** "PHANTOM" appears only when using Dolby Pro Logic.

NORMAL: Select this mode when the center speaker cannot reproduce the bass better than the front speakers. The bass portions of the center channel signals are output through the front speakers.

WIDE: Select this mode when the center speaker can reproduce the bass better than the front speakers. All signals of the center channel are output through the center speaker.

OFF: Select this mode when shut off the center channel signals.

* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol, and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

4 ONLY FOR "PRO LOGIC"
Press DELAY TIME repeatedly to select the proper delay time of the rear speaker output.
- Each time you press the button, the delay time changes as follows.

→ DELAY1 → DELAY2 → DELAY3 → DELAY4 →

DELAY1:	Select this when the distance from you to your rear speakers is greater than that to the front speakers.
DELAY2:	Select this when the distance from you to your rear speakers is almost equal to that to the front speakers.
DELAY3:	Select this when the distance from you to your rear speakers is less than that to the front speakers.
DELAY4:	Select this when the distance from you to your rear speakers is much less than that to the front speakers.

5 Press TEST TONE to check the speaker output balance.
A test tone comes out of the speakers in the following order:

→ LEFT (Left front speaker) → CENTER * (Center speaker) → RIGHT (Right front speaker) → SURROUND (Rear speakers) →

* "CENTER" does not appear when selecting "PHANTOM" or "OFF" for the center mode, and no test tone comes out of the center speaker.

6 Press VOLUME + / – to adjust the test tone volume to a proper level.

7 If necessary, adjust the speaker output balance so that the output level from center and rear speakers is almost equal to that from the front speakers:

To adjust the center speaker output level (from –10 to +10), press CENTER LEVEL – / +.
- You cannot adjust the center speaker output level when you select "PHANTOM" or "OFF" for the center mode.

To adjust the rear speaker output level (from –10 to +10), press REAR LEVEL – / +.
- You cannot adjust the right and left speaker output levels separately.
- You cannot adjust the rear speaker output level when using Dolby 3 Stereo.

8 Press TEST TONE again to stop the test tone.

9 Release SHIFT.

Enjoying Playback with Dolby Surround

You can use the settings you have already stored in memory.

On the unit:

1 Press PRO LOGIC / 3 STEREO to select the Dolby Surround mode you want.
The PRO LOGIC or 3 STEREO indicator lights up on the display.
- Each time you press the button, the Dolby Surround modes changes as follows:

→ PRO LOGIC → 3 STEREO → Canceled →

- When Dolby Surround is activated, the sound mode is canceled temporarily.

2 Select and play a sound source encoded with Dolby Surround (with the DOLBY SURROUND mark).

To cancel the Dolby Surround mode, press PRO LOGIC / 3 STEREO repeatedly until neither PRO LOGIC nor 3 STEREO indicator remains lit on the display.

On the remote control:

1 Press and hold SHIFT until the following procedure is finished.

2 Press PRO LOGIC or 3 STEREO whichever you want to use.
The PRO LOGIC or 3 STEREO indicator lights up on the display.

- When Dolby Surround is activated, the sound mode is canceled temporarily.

3 Select and play a sound source encoded with Dolby Surround (with the DOLBY SURROUND mark).

To cancel the Dolby Surround mode, press PRO LOGIC or 3 STEREO (the same button you have pressed to activate Dolby Surround in step 1 above) so that neither PRO LOGIC nor 3 STEREO indicator remains lit on the display.

Recording

Continued

IMPORTANT:

- **It may be unlawful to record or play back copyrighted material without the consent of the copyright owner.**
- The recording level is automatically set correctly, so it is not affected by the VOLUME control. Thus, during recording you can adjust the sound you are actually listening to without affecting the recording level.
- While recording, you can hear sound modes and/or the Signal Adaptive Bass effect through the speakers or headphones. However, the sound is recorded without these effects (see page 11).
- If recordings you have made have excessive noise or static, the unit may be too close to a TV. Increase the distance between the TV and the unit.
- You can use type I and II tapes for recording.

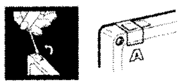
To protect your recording

Cassettes have two small tabs on the back to protect unexpected erasure or re-recording.

To protect your recording, remove these tabs.

To re-record on a protected tape, cover the holes with adhesive tape.

When using type II tape, be careful not to cover the holes used to detect the tape type.

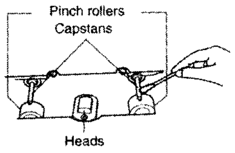


To keep the best recording and playback sound quality

If the heads, capstans, and pinch rollers of the cassette decks become dirty, the following will occur:

- Impaired sound quality
- Discontinuous sound
- Fading
- Incomplete erasure
- Difficulty in recording

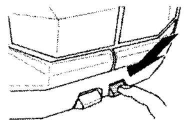
To clean the heads, capstans, and pinch rollers
Use a cotton swab moistened with alcohol.



To demagnetize the heads
Turn off the unit, and use a head demagnetizer (available at electronics and record shops).

Recording Tapes on Deck B

1 **Press EJECT ≜ for the deck B.**



2 **Put in a recordable cassette, with the exposed part of the tape down.**

3 **Close the cassette holder gently.**

4 **Check the tape direction of deck B.**

- If the tape direction is not correct, press TAPE ◄► twice then ■ to change the tape direction.

5 **Start playing the source — FM, AM*, CD player, deck A, or auxiliary equipment connected to AUX jacks.**

- When the source is CD, you can also use CD Direct Recording (see page 23) and Auto Edit Recording (see page 24).
- When the source is deck A, you can also use the dubbing method. (See "Dubbing Tapes" on page 23.)

* See "To record an AM (MW/LW) station — Beat Cut" on page 23.

6 **Start recording.**

On the unit:

Press REC START/STOP.

The REC indicator lights up on the display and recording starts.

On the remote control:

1) Press REC PAUSE.

   The REC indicator starts flashing on the display.

2) Press TAPE ◄►.

   The REC indicator stops flashing and remains lit, and recording starts.

To stop during recording, press REC START/STOP again (or ■ on the remote control).

To stop recording temporarily (except when the playback source is deck A), press REC PAUSE on the remote control.
To resume recording, press TAPE ◄►.

To remove the cassette, press EJECT ≜ for deck B.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

- When using the Reverse Mode for recording, start recording in the forward (►) direction first. Otherwise, recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄

To record an AM (MW/LW) station — Beat Cut

While recording an AM (MW/LW) broadcast, beats may be heard (which are never heard when listening to the broadcast without recording it).

If this occurs, press PROGRAM/RANDOM repeatedly, while recording, until the beats are reduced.

- Each time you press the button, the display changes to show the following:

→ CUT1 → CUT2 → CUT3 → CUT4 ⏎

Dubbing Tapes

It is preferable that the tape type (type I or II) you record from be the same as the tape type you record onto when dubbing tapes.

1 **Press TAPE ◄►, then ■.**

2 **Put the source cassette in deck A, and a recordable cassette into deck B.**

- Put the cassettes in both decks so that the tapes will run in the forward (►) direction.

3 **Press DUBBING.**

Dubbing starts.

To stop during dubbing, press ■.

To remove the cassette, press ≜ EJECT for deck A and EJECT ≜ for deck B.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄

CD Direct Recording

Everything on the CD goes onto the tape in the order it is on the CD, or according to the order you have made for Program play.

1 **Put a recordable cassette into deck B.**

2 **Place a disc correctly on the circle of the disc tray, with its label side up.**

3 **Press one of the disc number buttons (CD 1 to CD 3) to select the disc, then ■.**

4 **Press CD REC START.**

"CD REC" appears, and the REC indicator lights up on the display.

Deck B starts recording and the CD player starts playing.

When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.

To stop during CD Direct Recording, press ■.

To remove the cassette, press EJECT ≜ for deck B.

To record on both sides — Reverse Mode

Press REVERSE MODE so that the Reverse Mode indicator lights up as — (⇄)

- When using the Reverse Mode for CD Direct Recording, start recording in the forward (►) direction first. When the tape reaches its end while recording a song in the forward direction (►), the last song will be recorded at the beginning of the reverse side (◄).

  If you start recording on the reverse side (◄), recording will stop when recording is done only on one side (reverse) of the tape.

To cancel Reverse Mode, press the button again so that the Reverse Mode indicator lights up as — ⇄

Auto Edit Recording

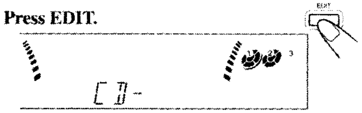
By using Auto Edit Recording, you can record the CD tracks to fit the tape. Auto Edit Recording makes a program by selecting the CD tracks in numerical order. However, to prevent the end of the last track on the front side from being cut off, the last track is selected so as to fit on the remaining tape length.

On the unit ONLY:

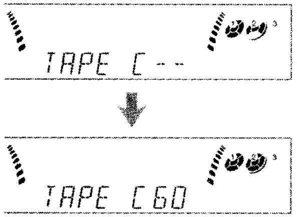
1 Place a disc correctly on the circle of the disc tray, with its label side up.

- If the current playing source is not the CD player, press CD ►/❚❚, then ■ before going to the next step.

2 Press EDIT.



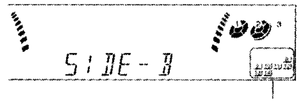
3 Press the disc number button (CD 1 to CD 3) for the disc you want to record from.



The optimum tape length for the disc appears.

To change the tape length manually
If the tape length selected is not satisfactory, you can change the tape length by pressing ◄◄ or ►►.
You can select the tape length among the following — 40, 46, 50, 54, 60, 64, 70, 74, 80, 84, and 90.

4 Press SET.



Tracks to be recorded on the reverse side (SIDE-B) appear.

- Each time you press the button, the tracks to be recorded on the front side (SIDE-A) and on the reverse side (SIDE-B) alternate.

5 Put a recordable cassette of appropriate length into deck B.

6 Press REVERSE MODE so that the Reverse Mode indicator lights up as (⮂).

- Without turning on the Reverse Mode (⮂), recording will stop when the front side of the tape is recorded.

7 Press CD REC START.

The REC indicator lights up on the display.
Deck B starts recording then, about 10 seconds later, the CD player starts playing.
When the recording is done, "CD REC FINISHED" appears on the display, and the CD player and deck B stop.

- If a tape has not been rewound, deck B will rewind the tape before it starts recording.
- A 10-second blank portion is automatically created at the beginning of each side of the tape.

To stop during Auto Edit Recording
Press ■ or REC START/STOP so that a 4-second blank portion is created on the recorded tape. (Remember a 4-second blank is important when using Music Scan — see page 19.)

To cancel Auto Edit Recording

- Press PROGRAM/RANDOM before or after play. (The unit enters Program, Random, or Continuous Play mode.)

OR

- Press ⏏ for the disc you have selected.

To remove the cassette, press EJECT ⏏ for deck B.

English

English

Using the Timers

There are three timers available — Recording Timer, Daily Timer, and Sleep Timer.

Before using the timers, you need to set the clock built in the unit. (See page 10.)

Using Daily Timer

With Daily Timer, you can wake to your favorite music or radio program.

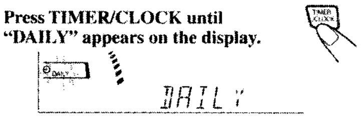
How Daily Timer actually works

The unit automatically turns on, set the volume level to the preset level, and starts playing the specified source when the on-time comes (the ⊕ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" flashes just before the off-time), the unit automatically turns off (stands by).
The timer setting remains in memory until you change it.

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press TIMER/CLOCK repeatedly and start from step 1 again.)

On the unit ONLY:

1 Press TIMER/CLOCK until "DAILY" appears on the display.



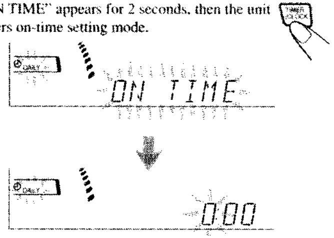
The DAILY indicator also starts flashing on the display.

- Each time you press the button, the timer setting modes change as follows:

DAILY → ON TIME → REC
Canceled ← Clock setting (See page 10) ← ON TIME

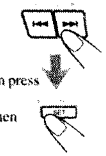
2 Press TIMER/CLOCK again.

"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.



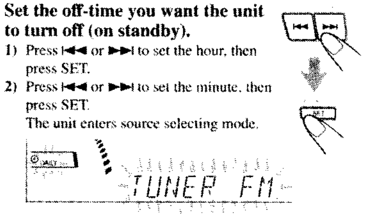
3 Set the on-time you want the unit to turn on.

1) Press ◄◄ or ►► to set the hour, then press SET.
2) Press ◄◄ or ►► to set the minute, then press SET.
"OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.



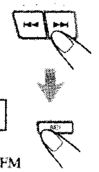
4 Set the off-time you want the unit to turn off (on standby).

1) Press ◄◄ or ►► to set the hour, then press SET.
2) Press ◄◄ or ►► to set the minute, then press SET.
The unit enters source selecting mode.



5 Press ◄◄ or ►► to select the source to play, then press SET.

- Each time you press ◄◄ or ►►, the source changes as follows:



TUNER FM → TUNER AM
AUX ← TAPE ← - CD - - -

TUNER FM:	tunes into a specified preset FM station. → go to step 6.
TUNER AM:	tunes into a specified preset AM (MW/LW) station. → go to step 6.
- CD - - -:	plays a disc from a specified track of a specified disc. → go to step 6. • Make sure there is a CD on the selected disc number tray.
TAPE:	plays a tape in deck A or B. → go to step 7. • Make sure that a tape is in the deck whose deck indicator (A or B) is lit on the display. • Make sure that the tape direction is correct.
AUX:	plays an external source. → go to step 7. • To use this setting, the external component has to be equipped with the timer function.

Continued

6 When selecting "– CD – – –"

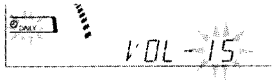
1) Press ⏮ or ⏭ to select the disc number, then press SET.
2) Press ⏮ or ⏭ to set the track number, then press SET.
   The unit enters volume setting mode.

When selecting "TUNER FM" or "TUNER AM"

Press ⏮ or ⏭ to select the preset station number, then press SET.
The unit enters volume setting mode.

7 Press ⏮ or ⏭ to set the volume level.

- You can select the volume level from among four levels. If you select " VOL – – –," the volume is set to the last level when the unit has been turned off.



8 Press SET to complete the Daily Timer setting.

The DAILY indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.

9 Press ⏻/I to turn off the unit (on standby) if you have set the Daily Timer with the unit turned on.

To turn on or off Daily Timer after its setting is done

1. **Press TIMER/CLOCK repeatedly until "DAILY" appears on the display.**
2. **To turn off the Daily Timer, press CANCEL.**
   The DAILY indicator goes off from the display. The Daily Timer is canceled, but the setting for the Daily Timer remains in memory.

   To turn on the Daily Timer, press SET.
   The DAILY indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.

notes **If the unit is turned on when the timer-on time comes**
Daily Timer does not work.

Using Recording Timer

With Recording Timer, you can make a tape of a radio broadcast automatically.

How Recording Timer actually works

The unit automatically turns on, tunes into the specified station, sets the volume level to "0," and starts recording when the on-time comes (the ⊕ indicator flashes just before the on-time, and continues flashing while the timer is operating). Then, when the off-time comes ("OFF" appears just before the off-time), the unit automatically turns off (stands by).
The timer setting remains in memory until you change it.

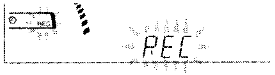
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- If you have made a mistake while setting the timer, press CANCEL. (However, this does not always work. If CANCEL does not work, press TIMER/CLOCK repeatedly and start from step 1 again.)

On the unit ONLY:

1 Put a recordable cassette into deck B.

2 Press TIMER/CLOCK until "REC" appears on the display.

The REC indicator also starts flashing on the display.

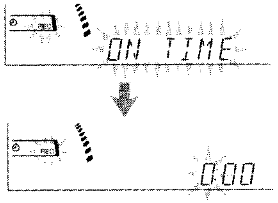


- Each time you press the button, the timer setting modes change as follows:

```
┌→ DAILY ──→ ON TIME ──→ REC ─┐
└─Canceled ←─ Clock ←── ON TIME ←┘
              setting
           (See page 10.)
```

3 Press TIMER/CLOCK again.

"ON TIME" appears for 2 seconds, then the unit enters on-time setting mode.



4 Set the on-time you want the unit to turn on.

1) Press ⏮ or ⏭ to set the hour, then press SET.
2) Press ⏮ or ⏭ to set the minute, then press SET.
   "OFF TIME" appears for 2 seconds, then the unit enters off-time setting mode.

5 Set the off-time you want the unit to turn off (on standby).

1) Press ⏮ or ⏭ to set the hour, then press SET.
2) Press ⏮ or ⏭ to set the minute, then press SET.
   The unit enters preset station selecting mode.

6 Select the preset station.

1) Press ⏮ or ⏭ to select the band ("TUNER FM" or "TUNER AM"), then press SET.
2) Press ⏮ or ⏭ to select a preset channel number, then press SET.
   The REC indicator stops flashing and remains lit. The settings you have done are shown on the display in sequence.

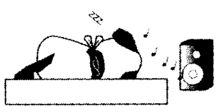
7 Press ⏻/I to turn off the unit (on standby) if necessary.

notes **If you want to listen to another source while recording**
Press REC START/STOP to stop recording. Without stopping it, you cannot change the source.

To turn on or off Recording Timer after its setting is done

1. **Press TIMER/CLOCK repeatedly until "REC" appears on the display.**
2. **To turn off the Recording Timer, press CANCEL.**
   The REC indicator goes off from the display. The Recording Timer is canceled, but the setting for the Recording Timer remains in memory.

   To turn on the Recording Timer, press SET.
   The REC indicator lights up on the display. The settings you have done are shown on the display in sequence for your confirmation.



Using Sleep Timer

With Sleep Timer, you can fall asleep to music.
You can set Sleep Timer when the unit is turned on.

How Sleep Timer actually works

The unit automatically turns off after the specified time length passes.

On the remote control ONLY:

1 Press SLEEP.

The time length until the shut-off time appears and the SLEEP indicator starts flashing on the display.

- Each time you press the button, the time length changes as follows:

```
┌─10 → 20 → 30 → 60 → 90 → 120─┐
└────────── Canceled ←──────────┘
```

2 Wait for about 5 seconds after specifying the time length.

The SLEEP indicator stops flashing and remains lit.

To check the remaining time until the shut-off time, press SLEEP once so that the remaining time until the shut-off time appears for about 5 seconds.

To change the shut-off time, press SLEEP repeatedly until the desired time length appears on the display.

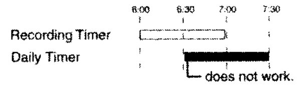
To cancel the setting, press SLEEP repeatedly so that the SLEEP indicator goes off.

- Sleep Timer is also canceled when you turn off the unit.

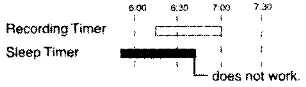
Timer Priority

Since each timer can be set separately, you may wonder what happens if the setting for these timers overlaps.
Here are examples.

- **Recording Timer has priority over Daily Timer and Sleep Timer.**
  If Daily Timer is set to come on while Recording Timer is operating, Daily Timer will not come on at all.



If Recording Timer is set to come on while Sleep Timer is operating, Sleep Timer will not work (the SLEEP indicator does not go off).



Additional Information

Description of the PTY codes:

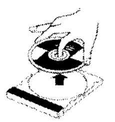
NEWS:	News.
AFFAIRS:	Topical program expanding or enlarging upon the news — debate, or analysis.
INFO:	Program the purpose of which is to impart advice in the widest sense.
SPORT:	Program concerned with any aspect of sports.
EDUCATE:	Educational programs.
DRAMA:	All radio plays and serials.
CULTURE:	Programs concerning any aspect of national or regional culture, including language, theatre, etc.
SCIENCE:	Programs about natural sciences and technology.
VARIED:	Used for mainly speech-based programs like quizzes, panel games and personality interviews.
POP M:	Commercial music of current popular appeal.
ROCK M:	Rock music.
M.O.R. M:	Current contemporary music considered to be "easy-listening."
LIGHT M:	Instrumental music, and vocal or choral works.
CLASSICS:	Performances of major orchestral works, symphonies, chamber music, etc.
OTHER M:	Music not fitting into any of the other categories.
WEATHER:	Weather reports and forecasts.
FINANCE:	Stock Market reports, commerce, trading etc.
CHILDREN:	Programs targeted at a young audience.
SOCIAL A:	Programs about sociology, history, geography, psychology and society.
RELIGION:	Religious programs.
PHONE IN:	Involving members of the public expressing their views either by phone or at a public forum.
TRAVEL:	Travel information.
LEISURE:	Programs about recreational activities.
JAZZ:	Jazz music.
COUNTRY:	Songs which originate from, or continue the musical tradition of the American Southern States.
NATIONAL:	Current popular music of the nation or region in that country's language.
OLDIES:	Music from the so-called "golden age" of popular music.
FOLK M:	Music which has its roots in the musical culture of a particular nation.
DOCUMENT:	Program concerning factual matters, presented in an investigative style.
TRAFFIC:	Traffic announcement.

Classification of the PTY codes for some FM stations may be different from the above list.

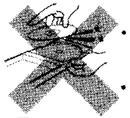
Maintenance

To get the best performance of the unit, keep your discs, tapes, and mechanism clean.

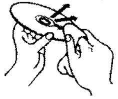
Handling discs



- Remove the disc from its case by holding it at the edge while pressing the center hole lightly.
- Do not touch the shiny surface of the disc, or bend the disc.
- Put the disc back in its case after use to prevent warping.



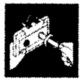
- Be careful not to scratch the surface of the disc when placing it back in its case.
- Avoid exposure to direct sunlight, temperature extremes, and moisture.



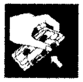
To clean the disc

Wipe the disc with a soft cloth in a straight line from center to edge.

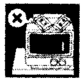
Handling cassette tapes



- If the tape is loose in its cassette, take up the slack by inserting a pencil in one of the reels and rotating.
- If the tape is loose, it may get stretched, cut, or caught in the cassette.



- Be careful not to touch the tape surface.



- Avoid the following places to store the tape:
  - — In dusty places
  - — In direct sunlight or heat
  - — In moist areas
  - — Near a magnet

DO NOT use any solvent — such as conventional record cleaner, spray, thinner, or benzine — to clean the disc.

Troubleshooting

If you are having a problem with your unit, check this list for a possible solution before calling for service.
If you cannot solve the problem from the hints given here, or the unit has been physically damaged, call a qualified person, such as your dealer, for service.

Symptom	Cause	Action
No sound is heard.	Connections are incorrect or loose.	Check all connections and make corrections. (See pages 6 to 9.)
Hard to listen to broadcasts because of noise.	• Antennas are disconnected. • The AM loop antenna is too close to the unit. • The FM antenna is not properly extended and positioned.	• Reconnect the antennas correctly and securely. • Change the position and direction of the AM loop antenna. • Extend the FM antenna at the best position.
The disc sound is discontinuous.	The disc is scratched or dirty.	Clean or replace the disc. (See page 28.)
The disc tray does not open or close.	• The AC power cord is not plugged in. • Trays are locked.	• Plug the AC power cord. • Unlock the trays. (See page 18.)
The disc does not play.	The disc is placed upside down.	Place the disc with the label side up.
The cassette holders cannot be opened.	Power supply from the AC power cord has been cut off while the tape was running.	Turn on the unit.
Impossible to record.	Small tabs on the back of the cassette are removed.	Cover the holes with adhesive tape.
Operations are disabled.	The built-in microprocessor may malfunction due to external electrical interference.	Unplug the AC power cord and then plug it back in.
Unable to operate the unit from the remote control unit.	• The path between the remote control unit and the remote sensor on the unit is blocked. • The batteries are exhausted.	• Remove the obstruction. • Replace the batteries.

Specifications

Amplifier

Output Power (IEC 268-3/DIN)

Front:
75 watts per channel, min. RMS, both channels driven into 6 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Center:
25 watts, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Rear:
12.5 watts per channel, min. RMS, both channels driven into 16 ohms at 1 kHz with no more than 0.9% total harmonic distortion.

Audio input sensitivity/Impedance (at 1 kHz)
    AUX: 400 mV/50 kohms

Audio output level:
    AUX: 270 mV

Digital output: CD OPTICAL DIGITAL OUTPUT
    Signal wave length: 660 nm
    Output level: –21 to –15 dBm

Speakers/Impedance:
    Front: 6 – 16 ohms
    Center: 8 – 16 ohms
    Rear: 16 – 32 ohms

Tuner

FM tuning range: 87.50 – 108.00 MHz
AM tuning range: MW: 522 – 1,629 kHz
    LW: 144 – 288 kHz

CD player

CD Capacity: 3 CDs
Dynamic range: 85 dB
Signal-to-noise ratio: 90 dB
Wow and flutter: Immeasurable

Cassette deck

Frequency response
    Normal (type I): 50 – 14,000 Hz
    CrO_2 (type II): 50 – 14,000 Hz
    Metal (type IV): 50 – 14,000 Hz (only for playback)
Wow and flutter: 0.15% (WRMS)

General

Power requirement: AC 230 V ∿, 50 Hz
Power consumption: 140 watts (at operation)
    14 watts (at standby mode)
Dimensions (approx.): 265 x 315 x 341 mm (W/H/D)
    ($10\,^{7}/_{16}$ x $12\,^{7}/_{16}$ x $13\,^{7}/_{16}$ in.)
Mass (approx.): 9.5 kg (20.9 lbs)

Supplied accessories

See page 6.

Design and specifications are subject to change without notice.

VICTOR COMPANY OF JAPAN, LIMITED

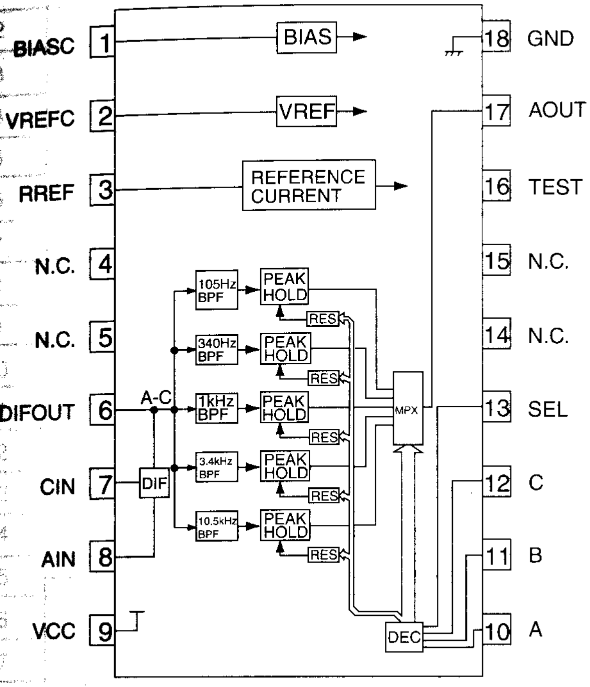
EN, GE, FR, NL, SP, IT

0399MWMMDWJEM

scription of Major IC's

3835S (IC542) : SPI BPF

1.Block Diagram


BIASC 1
VREFC 2
RREF 3
N.C. 4
N.C. 5
DIFOUT 6
CIN 7
AIN 8
VCC 9
18 GND
17 AOUT
16 TEST
15 N.C.
14 N.C.
13 SEL
12 C
11 B
10 A
BIAS
VREF
REFERENCE CURRENT
105Hz BPF
340Hz BPF
1kHz BPF
3.4kHz BPF
10.5kHz BPF
PEAK HOLD
PEAK HOLD
PEAK HOLD
PEAK HOLD
PEAK HOLD
RES
RES
RES
RES
RES
A-C
DIF
MPX
DEC

2.Pin Function

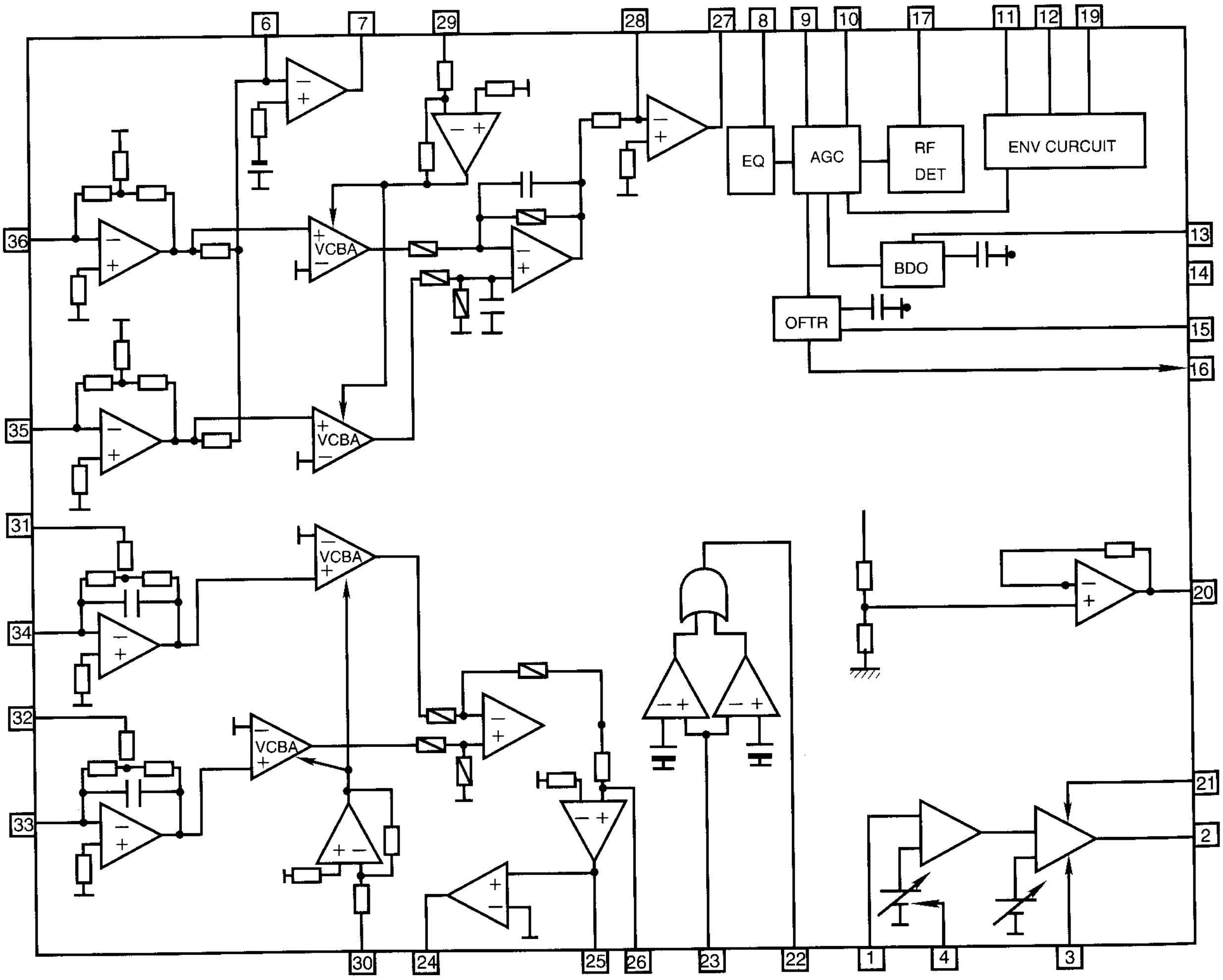
No.	Symbol	I/O	Function
1	BIASC	-	Decoupling condenser connection terminal.
2	VREFC	-	Decoupling condenser connection terminal.
3	RREF	-	Reference resistance connection terminal.
4	NC	-	Non connect.
5	NC	-	Connected to GND of audio system through a condenser.
6	DIF OUT	-	Non connect.
7	CIN	-	Connected to GND of audio system through a condenser.
8	AIN	I	Inputs the audio signal through a condenser.
9	VCC	-	Power supply terminal.
10	SPI-A	O	Output selection control terminal.
11	SPI-B	O	Output selection control terminal.
12	SPI-C	O	Output selection control terminal.
13	SPICSB	O	Output selection control terminal.
14	NC	-	Non connect.
15	NC	-	Non connect.
16	TEST	-	Connected to GND upon normal use.
17	AOUT	O	Multi-plexor output terminal.
18	GND	-	Connect to GND.

■ AN8806SB (IC601) : RF & Servo AMP

1.Terminal Layout

Name	Pin	Pin	Name
PD	1	36	PDAC
LD	2	35	PDBD
LDON	3	34	PDF
LDP	4	33	PDE
VCC	5	32	PDER
RF-	6	31	PDFR
RF OUT	7	30	TBAL
RF IN	8	29	FBAL
C.AGC	9	28	EF-
ARF	10	27	EF OUT
C.ENV	11	26	TE-
C.EA	12	25	TE OUT
CS BDO	13	24	CROSS
BDO	14	23	TE BPF
CS BRT	15	22	VDET
OFTR	16	21	LD OFF
/NRFDET	17	20	VREF
GND	18	19	ENV

2.Block Diagram


6
7
29
28
27
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9
10
17
11
12
19
36
35
31
34
32
33
13
14
15
16
20
21
2
30
24
25
26
23
22
1
4
3
VCBA
EQ
AGC
RF DET
ENV CURCUIT
BDO
OFTR

ctions

No.	Symbol	I/O	Functions and operations
[illegible]	PD	I	APC amp input terminal
2	LD	O	APC amp output terminal
3	LD ON	I	APC ON/OFF control terminal
4	LDP	-	Connect to ground
5	VCC	-	Power supply
6	RF-	I	Inverse input pin for RF amp
7	RF OUT	O	RFamp output
8	RF IN	I	RF input
9	C.AGC	I/O	Connecting pin of AGC loop filter
0	ARF	O	RF output
1	C.ENV	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
2	C.EA	I/O	A capacitor is connected to this terminal to detect the envelope of RF signal
3	CS BDO	I/O	A capacitor is connected to detect the lower envelope of RF signal
4	BDO	O	BDO output pin
5	CS BRT	I/O	A capacitor is connected to detect the lower envelope of RF signal
6	OFTR	O	Of-track status signal output
7	/NRFDET	O	RF detection signal output
8	GND	-	Ground
9	ENV	O	Envelope output
0	VREF	O	Reference voltage output
21	LD OFF	-	Connect to ground
22	VDET	O	Vibration detection signal output
23	TE BPF	I	Input pin of tracking error through BPF
24	CROSS	O	Tracking error cross output
25	TE OUT	O	Tracking error signal output
26	TE-	I	Inverse input pin for tracking error amp
27	FE OUT	O	Output pin of focus error
28	FE-	I	Inverse input pin for focus error amp
29	FBAL	I	Focus balance control
30	TBAL	I	Tracking balance control
31	PDFR	I/O	F I-V amp gain control
32	PDER	I/O	E I-V amp gain control
33	PDF	I	I-V amp input
34	PDE	I	I-V amp input
35	PD BD	I	I-V amp input
36	PD AC	I	I-V amp input

■ MN101C23DBP3 (IC810) : System Controller

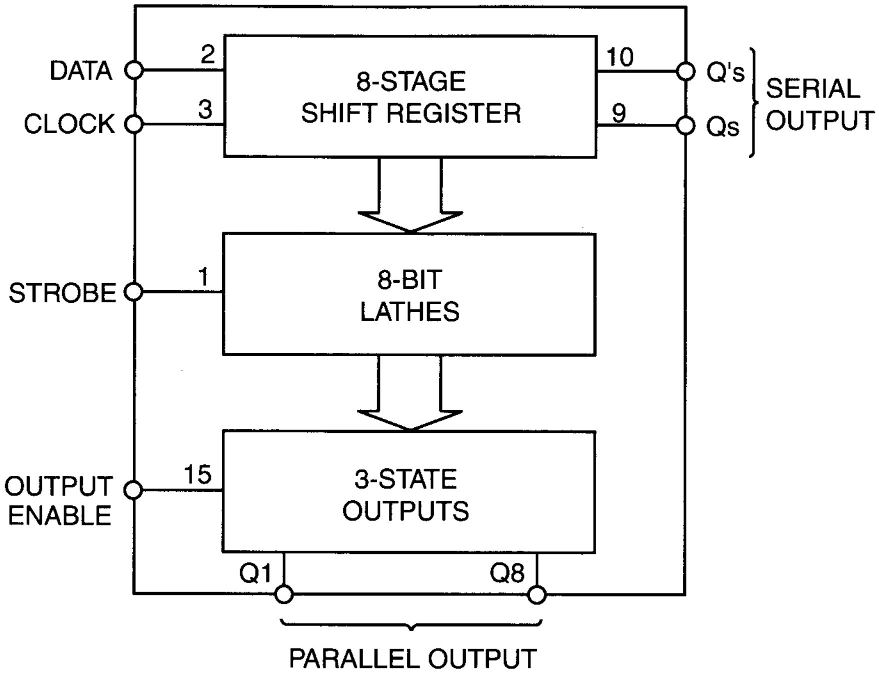
Pin No.	Symbol	I/O	Descriptions
1	KCMND	O	VC3 Serial data output
2	MSTAT	I	VC3 Status data input
3	KCLK	I	VC3 Serial clock input
4	DATAOUT	O	SLC/TUNER data output
5	DATAIN	I	SLC/TUNER data input
6	CK	O	SLC/TUNER clock signal output
7	BEAT	O	BEAT Cut signal output of TUNER
8	VDD	-	Power supply +5V
9,10	OSC2,1	I/O	Oscillation terminal (8MHz)
11	VSS	-	Connect to GND
12,13	XI,XO	I/O	Sub clock (32.768kHz)
14	MMOD	-	Connect to GND
15	VREF-	-	Connect to GND
16~19	KEY1~4	I	Key matrix input 1~4
20	SLCKEY1	I	Tape A playback detect switch
21	SLCKEY2	I	Tape B playback detect switch
22	SLCKEY3	I	Tape B playback/recording detect switch
23	SPIDTI	I	SPI data input
24	VREF+	-	Power supply +5V
25	MRDY	I	VC3 ready input
26	RESET	I	Reset signal input
27	PANEL OP	I	Moving panel open detection signal input
28	PANEL CL	I	Moving panel close detection signal input
29	LOAD DET	I	Overload detect signal input
30	MSI	I	MS Detector signal input
31	PROSACK	O	Clock signal output to IC406
32	PROSADA	I	Data input from IC406
33	REMIN	I	Remote control signal input
34	PHOTOA	I	Tape A mechanism running detection signal input
35	PHOTOB	I	Tape B mechanism running detection signal input
36	INH	I	Inhibit signal input
37	RDSCLK	I	Clock signal input from IC4
38	PRT	I	Protector input
39	RDS DATA	I	RDS data input from IC4
40	SPICSB	O	SPI Chip select signal output
41	OSDCLK	-	Not used
42~44	SPIC~A	O	SPI-C~A Data output to IC542
45,46	VOL+/-	I	Volume rotary encoder input (+/-)
47	MPX	I	Stereo detect
48	FVOLDA	O	Front volume data output
49	SLCCE	O	SLC Chip enable signal output to IC303,IC304
50	RVOLDA	O	Rear volume data output
51~59	G9~1	O	FL grid control signal output
60~89	P1~30	O	FL segment control signal output
90	SABCE	O	SA BASS Chip enable signal output
91	PROCE	O	ProLogic Chip enable signal output
92	DSPCE	O	DSP Chip enable signal output
93	EXTCE	O	EXT Chip enable signal output
94	VOLCK	O	Clock signal output to IC401
95	SMUTE	O	System mute control signal output
96	OSDCE	-	Not used
97	POUT	O	Power ON/OFF
98	TUCE	O	TUNER Chip enable signal output
99	VC3RESET	O	VC3 Reset output
100	VPP	-	Power supply

094BCF (IC304,IC303) : Serial to Parallel Port Extension

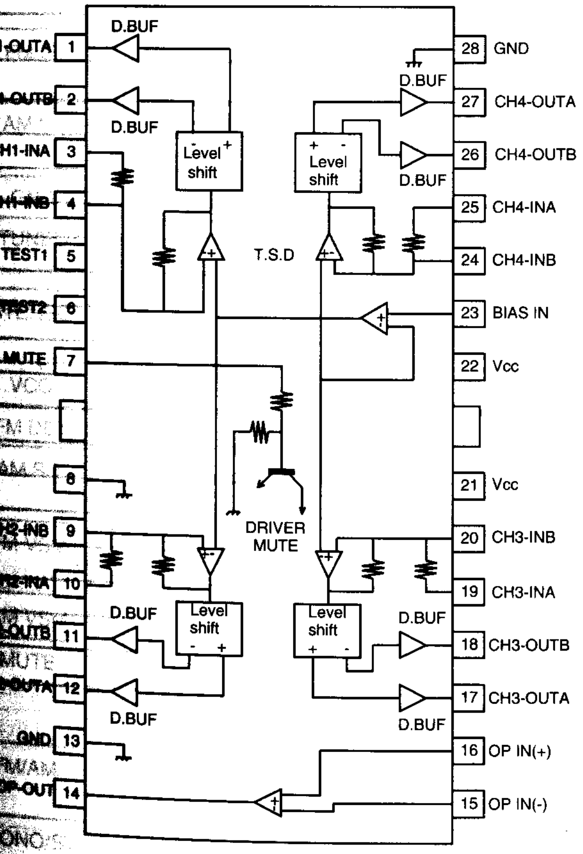
inal Layout

BE	1	16	Vdd
TA	2	15	OUTPUT ENABLE
CK	3	14	Q5
Q1	4	13	Q6
Q2	5	12	Q7
Q3	6	11	Q8
Q4	7	10	Q's
ss	8	9	Qs

2.Block Diagram

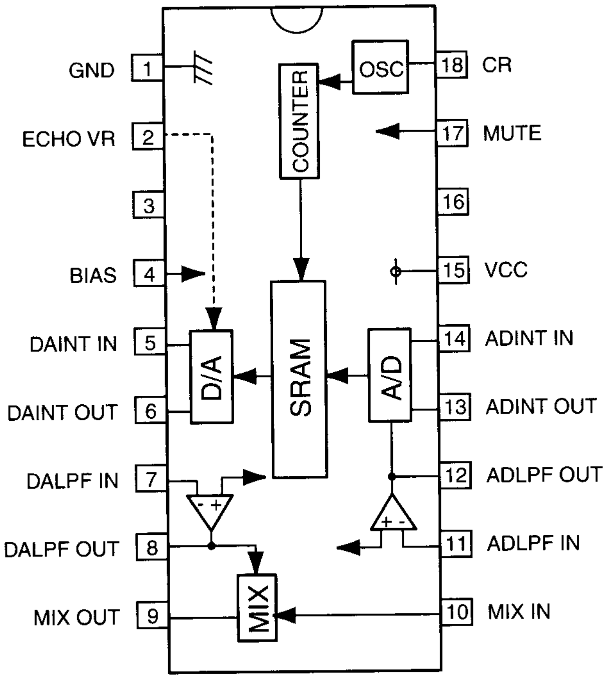

DATA
2
CLOCK
3
8-STAGE
SHIFT REGISTER
10
9
Q's
Qs
SERIAL
OUTPUT
STROBE
1
8-BIT
LATHES
OUTPUT
ENABLE
15
3-STATE
OUTPUTS
Q1
Q8
PARALLEL OUTPUT

6897FP (IC801) : 4channel Driver


OUTA
1
D.BUF
OUTB
2
D.BUF
H1-INA
3
H1-INB
4
Level
shift
TEST1
5
TEST2
6
MUTE
7
8
H2-INB
9
H2-INA
10
OUTB
11
D.BUF
Level
shift
OUTA
12
D.BUF
GND
13
OP-OUT
14
T.S.D
DRIVER
MUTE
28
GND
D.BUF
27
CH4-OUTA
26
CH4-OUTB
D.BUF
Level
shift
25
CH4-INA
24
CH4-INB
23
BIAS IN
22
Vcc
21
Vcc
20
CH3-INB
19
CH3-INA
D.BUF
Level
shift
18
CH3-OUTB
17
CH3-OUTA
D.BUF
16
OP IN(+)
15
OP IN(-)

■ BU9253AS (IC902) : LPF & Echo Mix.

1.Terminal Layout

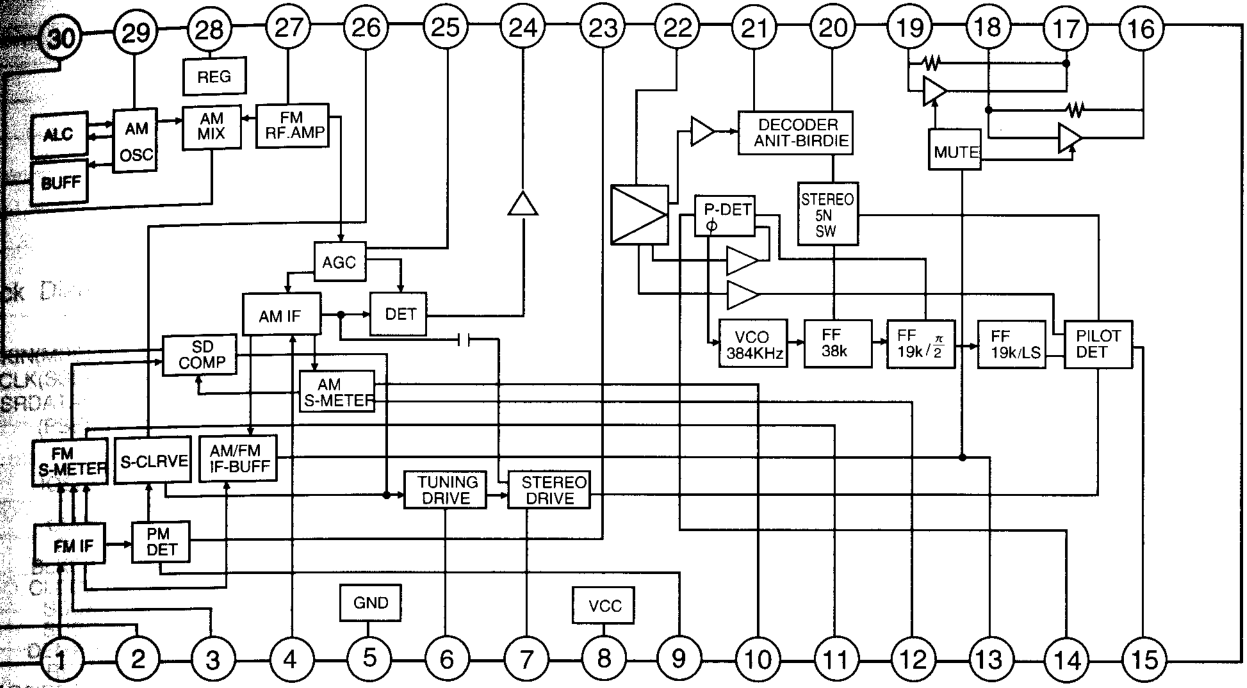

GND
1
ECHO VR
2
3
BIAS
4
DAINT IN
5
DAINT OUT
6
DALPF IN
7
DALPF OUT
8
MIX OUT
9
COUNTER
OSC
SRAM
D/A
A/D
MIX
18
CR
17
MUTE
16
15
VCC
14
ADINT IN
13
ADINT OUT
12
ADLPF OUT
11
ADLPF IN
10
MIX IN

2.Pin Function

Pin No.	Symbol	I/O	Descriptions
1	GND	-	Connect GND
2	ECHO VR	I	Echo level control
3		-	Non connect
4	BIAS	-	Analog part DC bias
5	DAINT IN	I	DA side integrator input
6	DAINT OUT	O	DA side integrator output
7	DALPF IN	I	DA side LPF input
8	DALPF OUT	O	DAside LPF output
9	MIX OUT	O	Mix AMP output for original tone& echo tone
10	MIX IN	I	Mix AMP input pin for original tone
11	ADLPF IN	I	AD side LPF input
12	ADLPF OUT	O	AD side LPF output
13	ADINT OUT	O	AD side integrator output
14	ADINT IN	I	AD side integrator input
15	VCC	-	Power supply
16	NC2	-	Non connect
17	MUTE	I	Mute control signal input
18	CR	-	CR pin for oscillator

[illegible] (IC1) : FM/AM IF AMP & Detector, FM MPX Decorder

Diagram

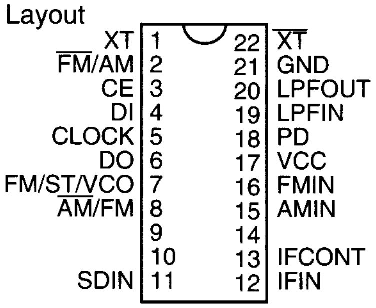

30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
REG
ALC
AM OSC
AM MIX
FM RF.AMP
BUFF
DECODER ANIT-BIRDIE
MUTE
P-DET φ
STEREO 5N SW
AGC
AM IF
DET
SD COMP
AM S-METER
VCO 384KHz
FF 38k
FF 19k/π/2
FF 19k/LS
PILOT DET
FM S-METER
S-CLRVE
AM/FM IF-BUFF
TUNING DRIVE
STEREO DRIVE
FM IF
PM DET
GND
VCC
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Function

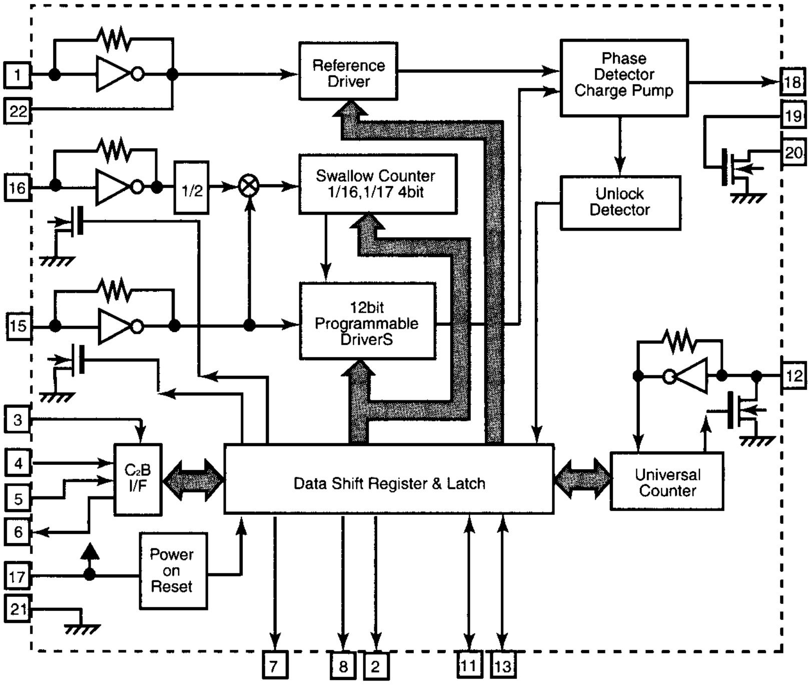
Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
FM IN	I	This is an input terminal of FM IF signal.	16	R OUT	O	Right channel signal output.
AM MIX	O	This is an out put terminal for AM mixer.	17	L OUT	O	Left channel signal output.
FM IF	I	Bypass of FM IF	18	R IN	I	Input terminal of the Right channel post AMP.
AM IF	I	Input of AM IF Signal.	19	L IN	I	Input terminal of the Left channel post AMP.
GND	–	This is the device ground terminal.	20	RO	O	Mpx Right channel signal output.
TUNED	O	When the set is tunning,this terminal becomes "L".	21	LO	O	Mpx Left channel signal output.
STEREO	O	Stereo indicator output. Stereo "L", Mono: "H"	22	IF IN	I	Mpx input terminal
VCC	–	This is the power supply terminal.	23	FM OUT	O	FM detection output.
FM DET	–	FM detect transformer.	24	AM DET	O	AM detection output.
AM SD	–	This is a terminal of AM ceramic filter.	25	AM AGC	I	This is an AGC voltage input terminal for AM
FM VSM	O	Adjust FM SD sensitivity.	26	AFC	–	This is an output terminal of voltage for FM-AFC.
AM VSM	O	Adjust AM SD sensitivity.	27	AM RF	I	AM RF signal input.
MUTE	I/O	When the signal of IF REQ of IC121(LC72131) appear, the signal of FM/AM IF output. //Muting control input.	28	REG	O	Register value between pin 26 and pin28 desides the frequency width of the input signal.
FM/AM	I	Change over the FM/AM input. "H" :FM, "L" : AM	29	AM OSC	–	This is a terminal of AM Local oscillation circuit.
MONO/ST	O	Stereo : "H", Mono: "L"	30	OSC BUFFER	O	AM Local oscillation Signal output.

■LC72136N (IC2) : PLL Frequency Synthesizer

1. Layout


XT 1
FM/AM 2
CE 3
DI 4
CLOCK 5
DO 6
FM/ST/VCO 7
AM/FM 8
9
10
SDIN 11
22 XT
21 GND
20 LPFOUT
19 LPFIN
18 PD
17 VCC
16 FMIN
15 AMIN
14
13 IFCONT
12 IFIN

2. Block

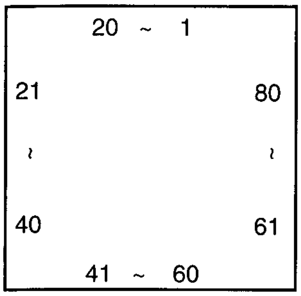

1
22
16
15
3
4
5
6
17
21
Reference Driver
Phase Detector Charge Pump
1/2
Swallow Counter 1/16,1/17 4bit
Unlock Detector
12bit Programmable DriverS
C2B I/F
Data Shift Register & Latch
Universal Counter
Power on Reset
18
19
20
12
7
8
2
11
13

3. Function

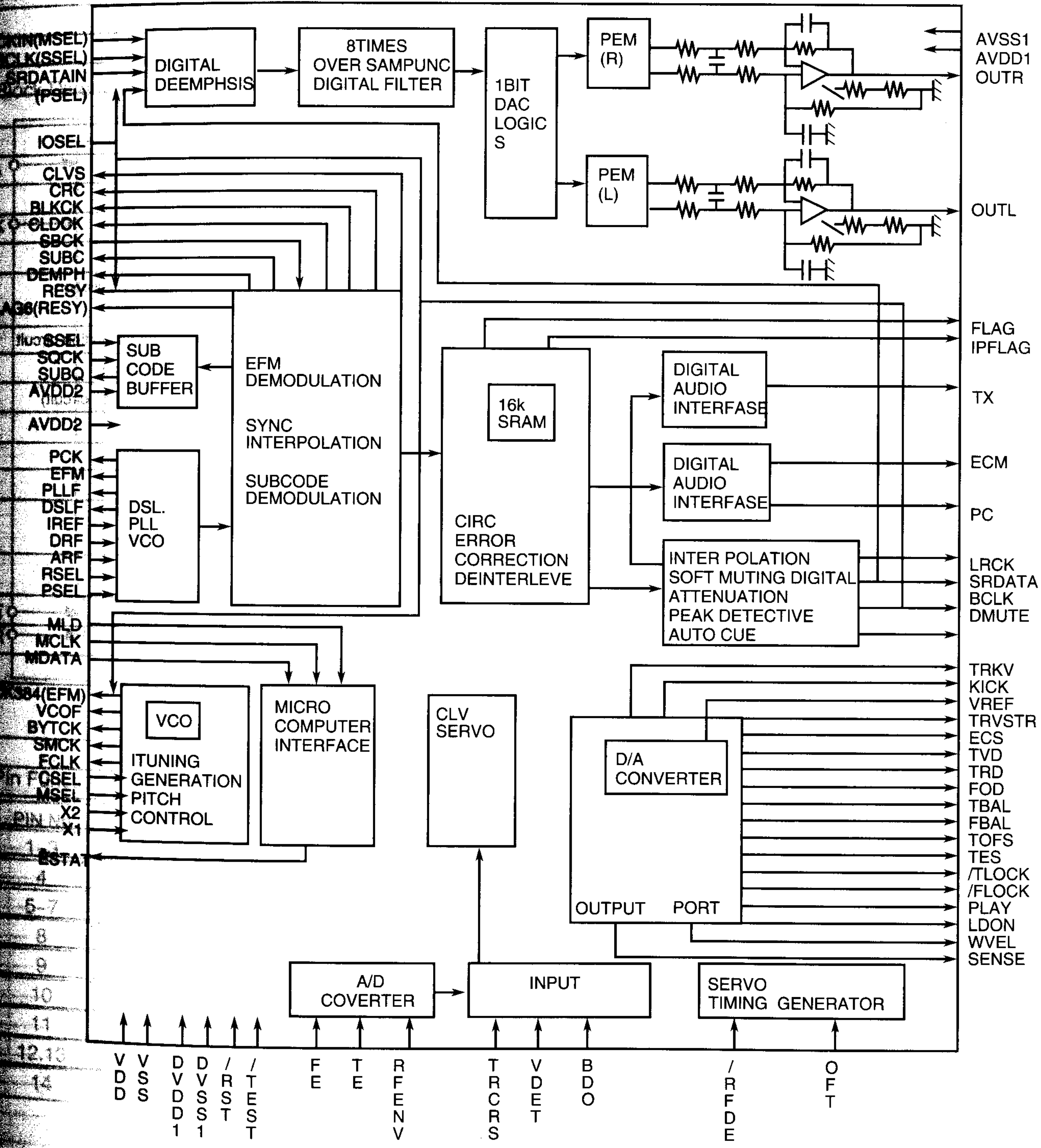
Pin No.	Symbol	I/O	Function	Pin No.	Symbol	I/O	Function
1	XT	I	X'tal oscillator connect (75kHz)	12	IFIN	I	IF counter signal input
2	$\overline{\text{FM}}$/AM	O	LOW:FM mode	13	IFCONT	O	IF signal output
3	CE	I	When data output/input for 4pin(input) and 6pin(output): H	14		-	Not use
4	DI	I	Input for receive the serial data from controller	15	AMIN	I	AM Local OSC signal output
5	CLOCK	I	Sync signal input use	16	FMIN	I	FM Local OSC signal input
6	DO	O	Data output for Controller Output port	17	VCC	-	Power suplly(VDD=4.5-5.5V) When power ON:Reset circuit move
7	FM/ST/VCO	O	"Low": MW mode	18	PD	O	PLL charge pump output(H: Local OSC frequency Height than Reference frequenc L: Low Agreement: Height impedance)
8	$\overline{\text{AM}}$/FM	O	Open state after the power on reset	19	LPFIN	I	Input for active lowpassfilter of PLL
9	LW	I/O	Input/output port	20	LPFOUT	O	Output for active lowpassfilter of PLL
10	MW	I/O	Input/output port	21	GND	-	Connected to GND
11	SDIN	I/O	Data input/output	22	$\overline{\text{XT}}$	I	X'tal oscillator(75KHz)

510 (IC651) : Digital Servo & Digital Signal Processer

nal Layout


20 ~ 1
21
80
40
61
41 ~ 60

ck Diagram

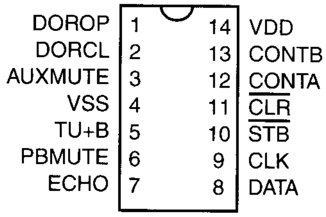

(MSEL)
CLK(SSEL)
SRDATAIN
(PSEL)
IOSEL
CLVS
CRC
BLKCK
OLDCK
SBCK
SUBC
DEMPH
RESY
(RESY)
SSEL
SQCK
SUBQ
AVDD2
AVDD2
PCK
EFM
PLLF
DSLF
IREF
DRF
ARF
RSEL
PSEL
MLD
MCLK
MDATA
(EFM)
VCOF
BYTCK
SMCK
FCLK
FCSEL
MSEL
X2
X1
ESTAT
DIGITAL DEEMPHSIS
8TIMES OVER SAMPUNC DIGITAL FILTER
1BIT DAC LOGIC S
PEM (R)
PEM (L)
AVSS1
AVDD1
OUTR
OUTL
SUB CODE BUFFER
EFM DEMODULATION
SYNC INTERPOLATION
SUBCODE DEMODULATION
DSL. PLL VCO
16k SRAM
CIRC ERROR CORRECTION DEINTERLEVE
DIGITAL AUDIO INTERFASE
DIGITAL AUDIO INTERFASE
INTER POLATION SOFT MUTING DIGITAL ATTENUATION PEAK DETECTIVE AUTO CUE
FLAG
IPFLAG
TX
ECM
PC
LRCK
SRDATA
BCLK
DMUTE
VCO
ITUNING GENERATION PITCH CONTROL
MICRO COMPUTER INTERFACE
CLV SERVO
D/A CONVERTER
OUTPUT PORT
TRKV
KICK
VREF
TRVSTR
ECS
TVD
TRD
FOD
TBAL
FBAL
TOFS
TES
/TLOCK
/FLOCK
PLAY
LDON
WVEL
SENSE
A/D COVERTER
INPUT
SERVO TIMING GENERATOR
VDD
VSS
DVDD1
DVSS1
/RST
/TEST
FE
TE
RFENV
TRCRS
VDET
BDO
/RFDE
OFT

3. Description

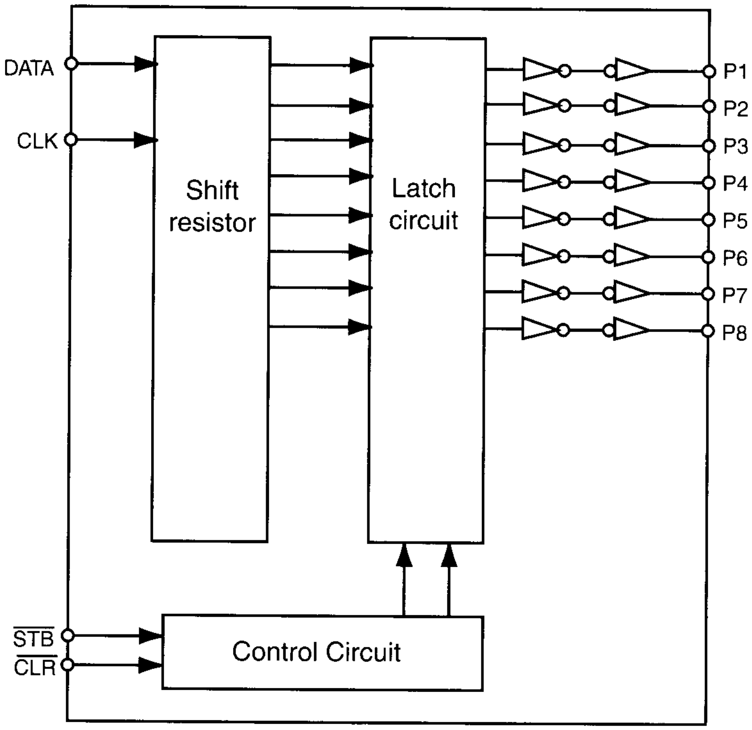
Pin No.	symbol	I/O	Description
1	BCLK	O	Not used
2	LRCK	O	Not used
3	SRDATA	O	Not used
4	DVDD1	–	Power supply (Digital)
5	DVSS1	–	Connected to GND
6	TX	O	Digital audio interface output
7	MCLK	I	μcom command clock signal input (Data is latched at signal's rising point)
8	MDATA	I	μcom command data input
9	MLD	I	μcom command load signal input
10	SENSE	O	Sence signal output
11	FLOCK	O	Focus lock signal output Active :Low
12	TLOCK	O	Tracking lock signal output Active :Low
13	BLKCK	O	sub-code•block•clock signal output
14	SQCK	I	Outside clock for sub-code Q resister input
15	SUBQ	O	Sub-code Q -code output
16	DMUTE	–	Connected to GND
17	STATUS	O	Status signal (CRC,CUE,CLVS,TTSTOP,ECLV,SQOK)
18	RST	I	Reset signal input (L:Reset)
19	SMCK	–	Not used
20	PMCK	–	Not used
21	TRV	O	Traverse enforced output
22	TVD	O	Traverse drive output
23	PC	–	Not used
24	ECM	O	Spindle motor drive signal (Enforced mode output) 3-State
25	ECS	O	Spindle motor drive signal (Servo error signal output)
26	KICK	O	Kick pulse output
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	Reference voltage input pin for D/A output block (TVD,FOD,FBA,TBAL)
30	FBAL	O	Focus Balance adjust signal output
31	TBAL	O	Tracking Balance adjust signal output
32	FE	I	Focus error signal input(Analog input)
33	TE	I	Tracking error signal input(Analog input)
34	RF ENV	I	RF envelope signal input(Analog input)
35	VDET	I	Vibration detect signal input(H:detect)
36	OFT	I	Off track signal input(H:off track)
37	TRCRS	I	Track cross signal input
38	RFDET	I	RF detect signal input(L:detect)
39	BDO	I	BDO input pin(L:detect)
40	LDON	O	Laser ON signal output(H:on)
41	TES	O	Tracking error shunt signal output(H:shunt)
42	PLAY	–	Not used
43	WVEL	–	Not used
44	ARF	I	RF signal input
45	IREF	I	Reference current input pin
46	DRF	I	Bias pin for DSL
47	DSLF	I/O	Loop filter pin for DSL
48	PLLF	I/O	Loop filter pin for PLL
49	VCOF	–	Not used
50	AVDD2	–	Power supply(Analog)
51	AVSS2	–	Connected to GND(Analog)
52	EFM	–	Not used
53	PCK	–	Not used
54	PDO	–	Not used
55	SUBC	–	Not used
56	SBCK	–	Not used
57	VSS	–	Connected to GND(for X'tal oscillation circuit)
58	XI	I	Input of 16.9344MHz X'tal oscillation circuit
59	X2	O	Output of X'tal oscillation circuit
60	VDD	–	Power supply(for X'tal cscillation circuit)
61	BYTCK	–	Not used
62	CLDCK	–	Not used
63	FLAG	–	Not used
64	IPPLAG	–	Not used
65	FLAG	–	Not used
66	CLVS	–	Not used
67	CRC	–	Not used
68	DEMPH		Not used
69	RESY	–	Not used
70	IOSEL	–	pull up
71	TEST	–	pull up
72	AVDD1	–	Power supply(Digital)
73	OUT L	O	Lch audio output
74	AVSS1	–	Connected to GND
75	OUT R	O	Rch audio output
76	RSEL	–	pull up
77	CSEL	–	Connected to GND
78	PSEL	–	Connected to GND
79	MSEL	–	Connected to GND
80	SSEL	–	Pull up

■ NJU3711D (IC854) : Mute & Rolling Panel Motor Control

1.Terminal Layout


DOROP 1
DORCL 2
AUXMUTE 3
VSS 4
TU+B 5
PBMUTE 6
ECHO 7
14 VDD
13 CONTB
12 CONTA
11 $\overline{CLR}$
10 $\overline{STB}$
9 CLK
8 DATA

2.Block Diagram

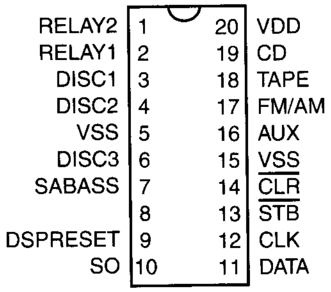

DATA
CLK
Shift resistor
Latch circuit
P1
P2
P3
P4
P5
P6
P7
P8
$\overline{STB}$
$\overline{CLR}$
Control Circuit

3.Pin Function

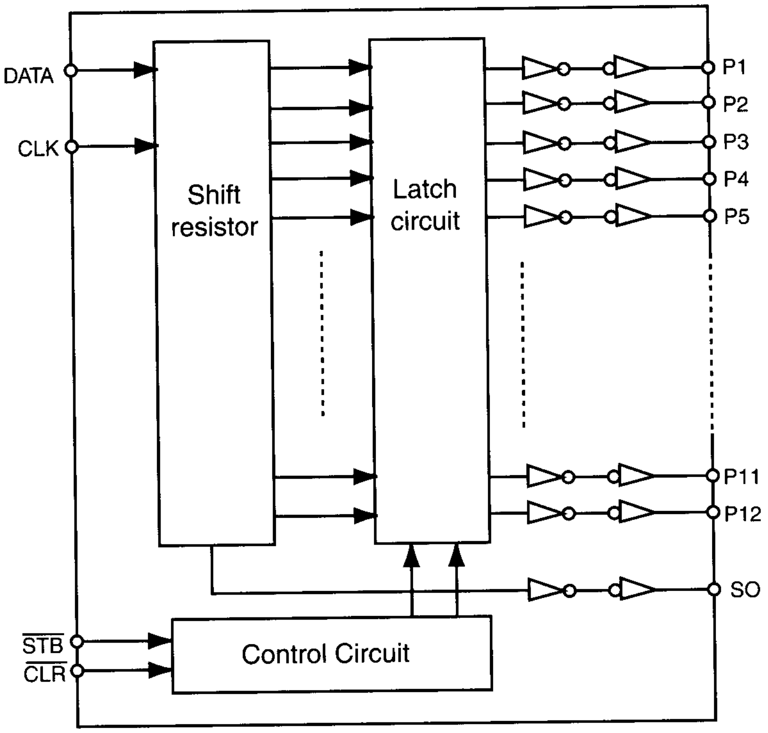
PIN No.	I/O	Symbol	Function
1~3	O	DOROP/DORCL/AUXMUTE	Parallel conversion data output terminal.
4	-	VSS	Connect to GND.
5~7	O	TU+B/PBMUTE/ECHO	Parallel conversion data output terminal.
8	I	DATA	Serial data input terminal.
9	I	CLK	Clock signal input terminal.
10	I	$\overline{STB}$	Strobe signal input terminal.
11	I	$\overline{CLR}$	Clear signal input terminal.
12.13	O	CONTA/CONTB	Parallel conversion data output terminal
14	-	VDD	Power supply.

■ NJU3714D (IC811) : L.E.D.Driver

1.Terminal Layout


RELAY2 1
RELAY1 2
DISC1 3
DISC2 4
VSS 5
DISC3 6
SABASS 7
8
DSPRESET 9
SO 10
20 VDD
19 CD
18 TAPE
17 FM/AM
16 AUX
15 VSS
14 CLR
13 STB
12 CLK
11 DATA

2.Block Diagram

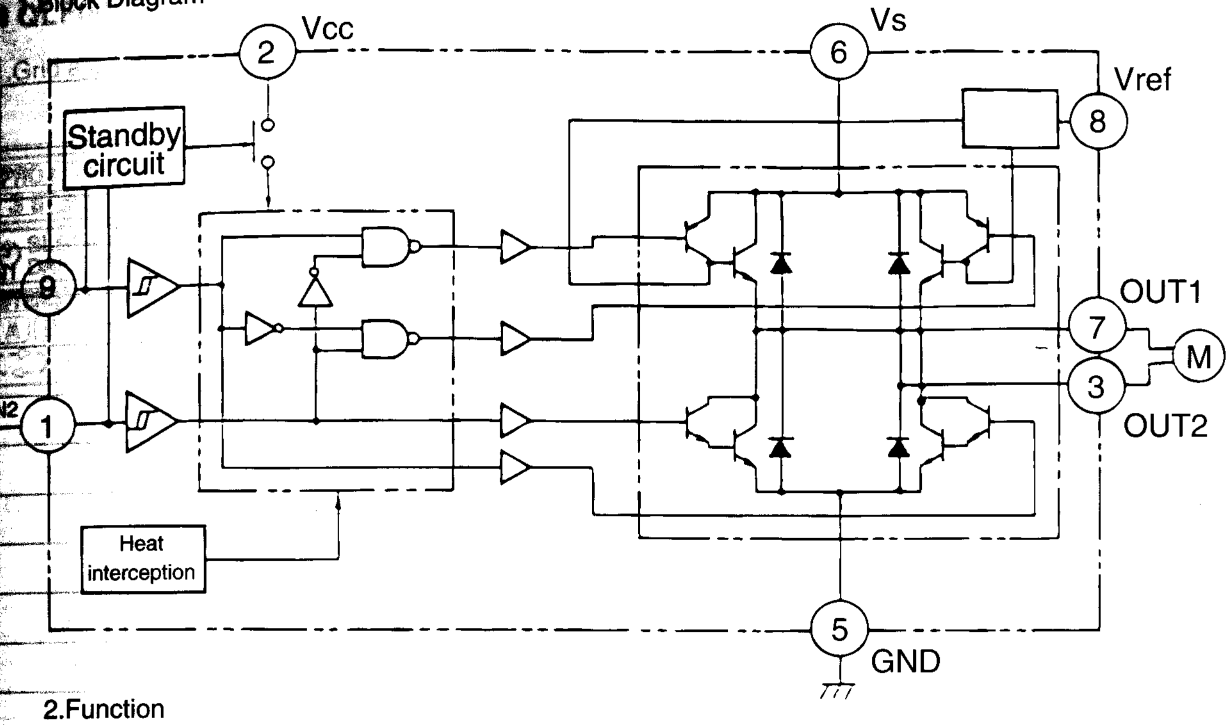

DATA
CLK
Shift resistor
Latch circuit
P1
P2
P3
P4
P5
P11
P12
SO
STB
CLR
Control Circuit

3.Pin Function

PIN No.	I/O	Symbol	Function
1~4	O	RELAY1.2/DISC1.2	Parallel conversion data output terminal.
5	-	VSS	Connect to GND.
6~9	O	DISC3/SABASS/DSPRESET	Parallel conversion data output terminal.
10	O	SO	Serial data output terminal.
11	I	DATA	Serial data input terminal.
12	I	CLK	Clock signal input terminal.
13	I	$\overline{\text{STB}}$	Strobe signal input terminal.
14	I	$\overline{\text{CLR}}$	Clear signal input terminal.
15	-	VSS	Connect to GND.
16~19	O	AUX/FM/AM/TAPE/CD	Parallel conversion data output terminal
20	-	VDD	Power supply.

TA8409S (IC851, IC852, IC853) : Motor Driver

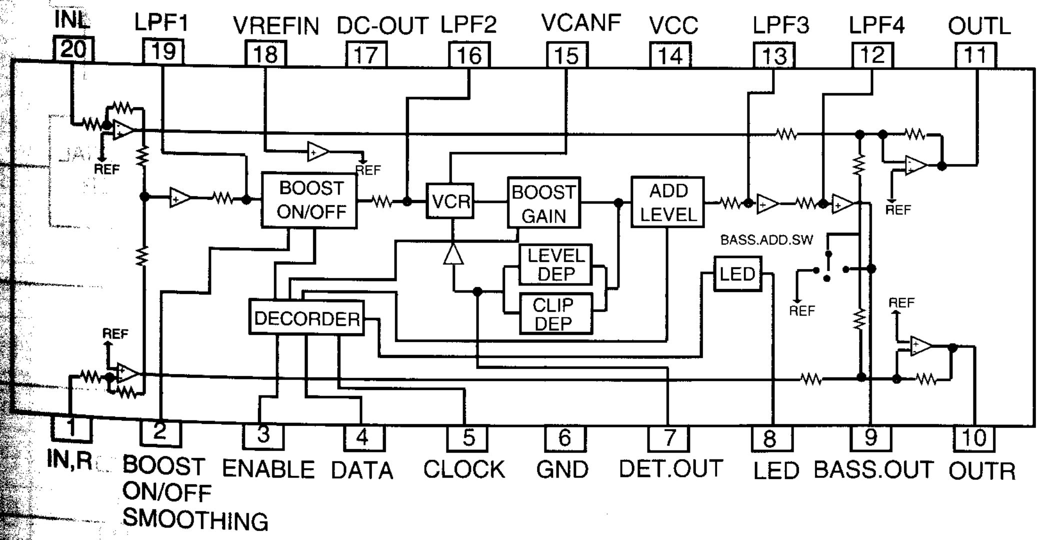
1.Block Diagram


2
Vcc
6
Vs
Vref
8
Standby circuit
9
OUT1
7
M
3
OUT2
1
Heat interception
5
GND

2.Function

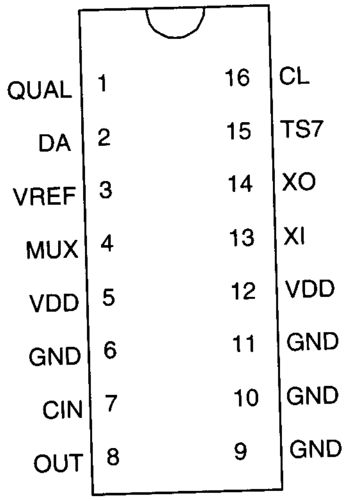
INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	MOTOR
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

LA2650 (IC406) : SA BASS


INL
20
LPF1
19
VREFIN
18
DC-OUT
17
LPF2
16
VCANF
15
VCC
14
LPF3
13
LPF4
12
OUTL
11
REF
BOOST ON/OFF
VCR
BOOST GAIN
ADD LEVEL
LEVEL DEP
CLIP DEP
DECORDER
BASS.ADD.SW
LED
1
IN,R
2
BOOST ON/OFF SMOOTHING
3
ENABLE
4
DATA
5
CLOCK
6
GND
7
DET.OUT
8
LED
9
BASS.OUT
10
OUTR

■ BU1923(IC4) : RDS Detector

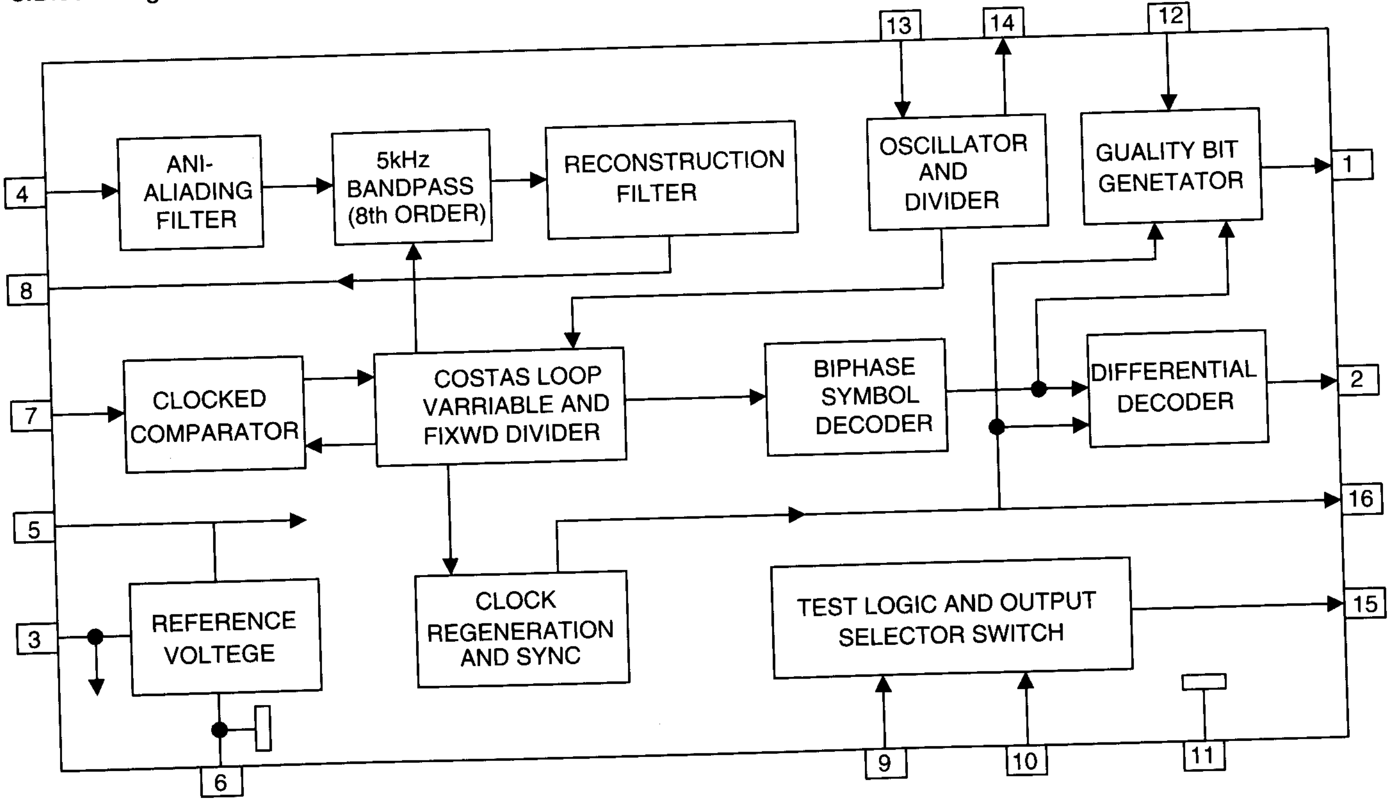
1.Terminal Layout


QUAL 1
DA 2
VREF 3
MUX 4
VDD 5
GND 6
CIN 7
OUT 8
16 CL
15 TS7
14 XO
13 XI
12 VDD
11 GND
10 GND
9 GND

2.Pin Functiont

Pin No.	Symbol	I/O	Function
1	QUAL	--	Non connection
2	DA	O	RDS data output
3	VREF	O	Reference voltage output
4	MUX	I	Multiplex signal input
5	VDD	--	+5Vsupply voltage for analog
6	GND	--	Ground for analog part(0V)
7	CIN	I	Subcarrier outputof reconstruction filter
8	OUT	O	Ground for digital part(0V)
9	GND	--	Ground for digital part(0V)
10	GND	--	Ground for digital part(0V)
11	GND	--	Ground for digital part(0V)
12	VDD	--	+5Vsupply voltage for digital part
13	XI	I	Oscilator input
14	XO	O	Oscilator output
15	TS7	--	Non connection
16	CL	O	RDS clock output

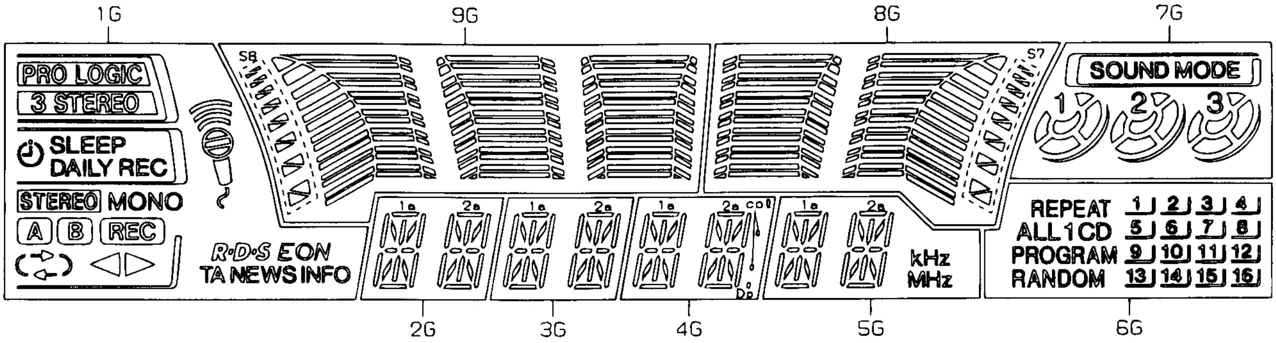
3.Block Diagram

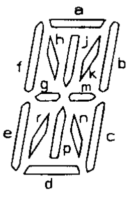

13
14
12
4
ANI-ALIADING FILTER
5kHz BANDPASS (8th ORDER)
RECONSTRUCTION FILTER
OSCILLATOR AND DIVIDER
GUALITY BIT GENETATOR
1
8
7
CLOCKED COMPARATOR
COSTAS LOOP VARRIABLE AND FIXWD DIVIDER
BIPHASE SYMBOL DECODER
DIFFERENTIAL DECODER
2
5
16
3
REFERENCE VOLTEGE
CLOCK REGENERATION AND SYNC
TEST LOGIC AND OUTPUT SELECTOR SWITCH
15
6
9
10
11

Internal connections for FL display tube

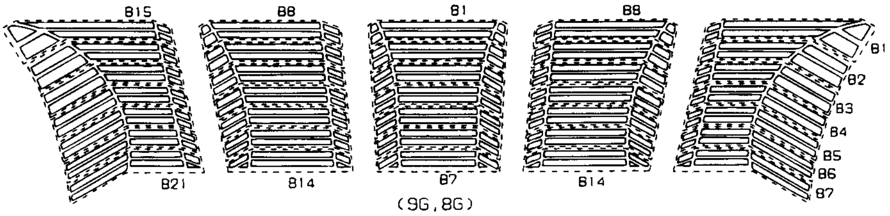
■ QLF0059-001 (FL801)

1.Grid assignment

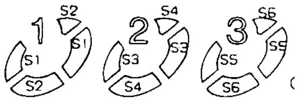

1G
9G
8G
7G
S8
S7
PRO LOGIC
3 STEREO
SLEEP
DAILY REC
STEREO
MONO
A
B
REC
R·D·S EON
TA NEWS INFO
SOUND MODE
1
2
3
1a
2a
COL
Dp
kHz
MHz
REPEAT
ALL1CD
PROGRAM
RANDOM
1 2 3 4
5 6 7 8
9 10 11 12
13 14 15 16
2G
3G
4G
5G
6G


a
h
j
f
k
b
g
m
e
r
n
c
p
d

(2G~5G)


B15
B8
B1
B8
B21
B14
B7
B14
B1
B2
B3
B4
B5
B6
B7

(9G,8G)


1
2
3
S1
S2
S3
S4
S5
S6

(7G)

2.Pin connection

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
CONNECTION	F1	F1	NP	NP	NC	NC	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12

PIN NO.	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
CONNECTION	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	P11	P10	P9	P8	P7	P6	P5	P4	P3	P2	P1	NC	1G

PIN NO.	51	52	53	54	55	56	57	58	59	60	61	62
CONNECTION	2G	3G	4G	5G	6G	7G	8G	9G	NP	NP	F2	F2

NOTE
1) F1,F2 --- Filament
2) NP ------ No pin
3) NC ------ No connection
4) DL ------ Datum Line
5) 1G~9G --- Grid

3.Anode connection

	1G	2G,3G	4G	5G	6G	7G	8G	9G
P1	▭	2a	2a	2a	–	▭	S7	S8
P2	PRO LOGIC	2h	2h	2h	–	**SOUND MODE**	B1	B1
P3	3 STEREO	2j	2j	2j	**REPEAT**	1	B2	B2
P4	**SLEEP**	2k	2k	2k	ALL	S1	B3	B3
P5	DAILY	2b	2b	2b	(ALL) 1	S2	B4	B4
P6	REC	2f	2f	2f	CD	(1))	B5	B5
P7	◷ ▭	2m	2m	2m	**PROGRAM**	(1) ◡	B6	B6
P8	≋	2g	2g	2g	**RANDOM**	2	B7	B7
P9	🎤	2c	2c	2c	1	S3	–	–
P10	STEREO	2e	2e	2e	2	S4	–	–
P11	MONO	2r	2r	2r	3	(2))	–	–
P12	A	2p	2p	2p	4	(2) ◡	–	–
P13	B	2n	2n	2n	5	3	–	–
P14	REC	2d	2d	2d	6	S5	–	–
P15	___	–	col	kHz	7	S6	–	–
P16	( )	–	Dp	MHz	8	(3))	–	–
P17	→ ←	1a	1a	1a	9	(3) ◡	B8	B8
P18	▷	1h	1h	1h	10	–	B9	B9
P19	◁	1j	1j	1j	11	–	B10	B10
P20	*R·D·S*	1k	1k	1k	12	–	B11	B11
P21	*EON*	1b	1b	1b	13	–	B12	B12
P22	TA	1f	1f	1f	14	–	B13	B13
P23	NEWS	1m	1m	1m	15	–	B14	B14
P24	INFO	1g	1g	1g	16	–	–	B15
P25	–	1c	1c	1c	–	–	–	B16
P26	–	1e	1e	1e	–	–	–	B17
P27	–	1r	1r	1r	–	–	–	B18
P28	–	1p	1p	1p	–	–	–	B19
P29	–	1n	1n	1n	–	–	–	B20
P30	–	1d	1d	1d	–	–	–	B21

Disassembly method

< Main body >

■ Removing the Metal Cover (See Fig.1 to 3)

1. Remove the six A screws attaching the metal cover on the back of the body.
2. Remove the two B screws attaching the metal cover on both sides of the body.
3. Lift the metal cover on the back of the body and remove it from the body.

CAUTION: DO NOT break the front panel tab fitted to the metal cover.

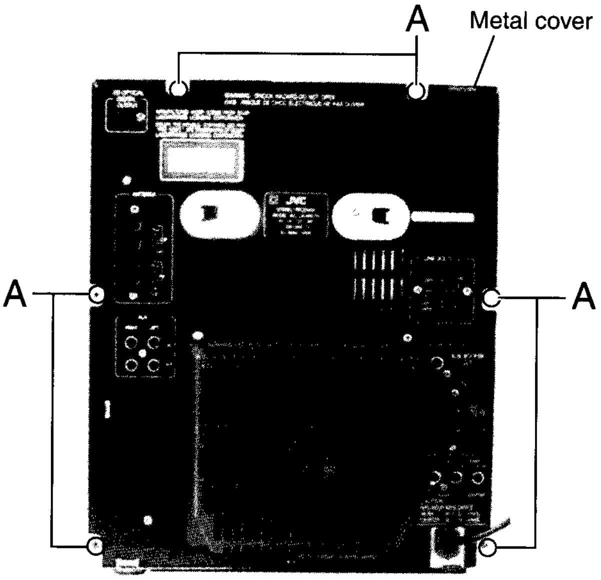


Fig.1

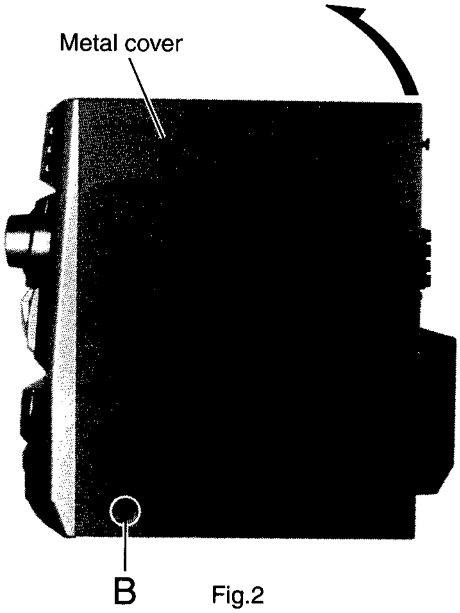


Fig.2

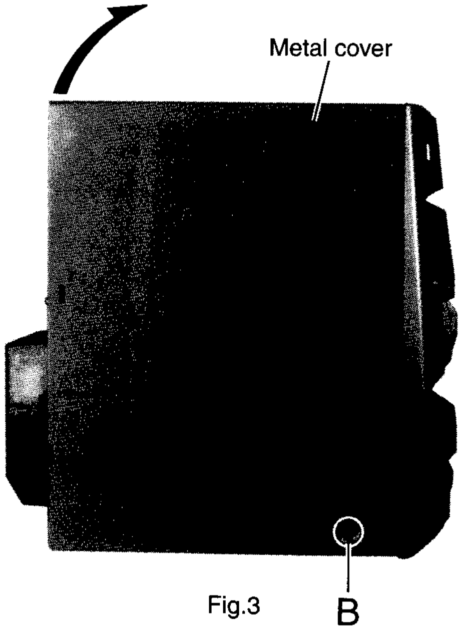


Fig.3

■ Removing the CD Changer Mechanism Assembly (See Fig.4 to 6)

- Prior to performing the following procedure, remove the metal cover.

1. Disconnect the connector CN410 of the card wire connecting the CD changer mechanism board to the main board.
2. Remove the two C screws on the upper side of the CD changer assembly and the two D screws on the back of the rear panel.
3. Remove the plastic rivet attaching the main board.
4. Lift and remove the CD changer mechanism assembly on the back of the body while pulling the rear panel and the front panel assembly.

   * To prevent damage to the CD fitting, be sure to pull the rear panel and the front panel assembly enough to remove the CD changer mechanism.

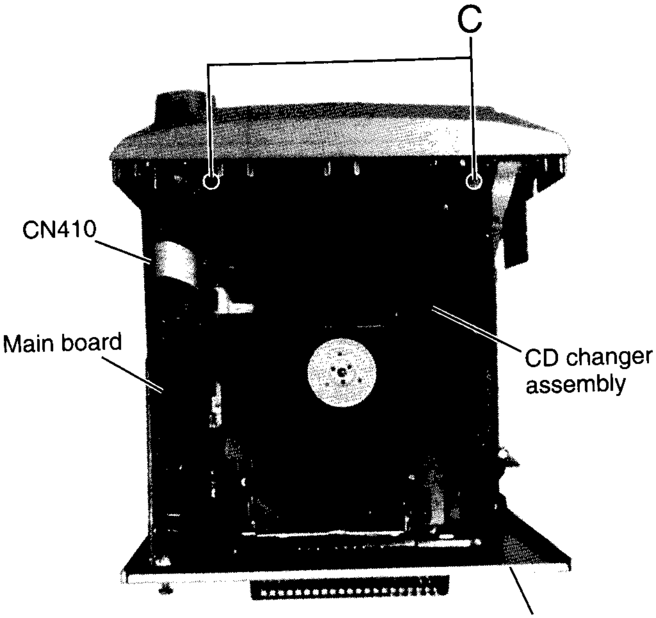

C
CN410
Main board
CD changer assembly
Rear panel

Fig.4

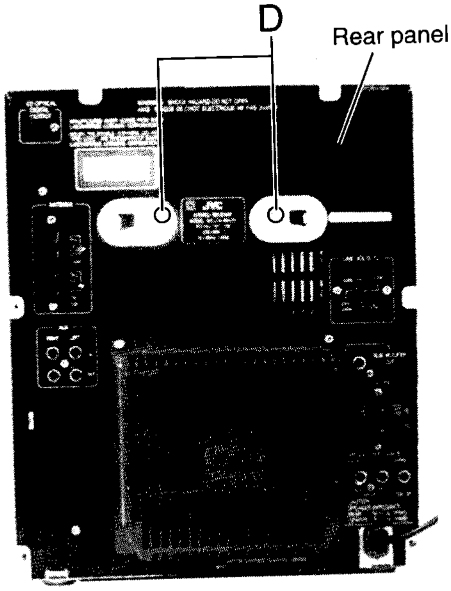

D
Rear panel

Fig.5

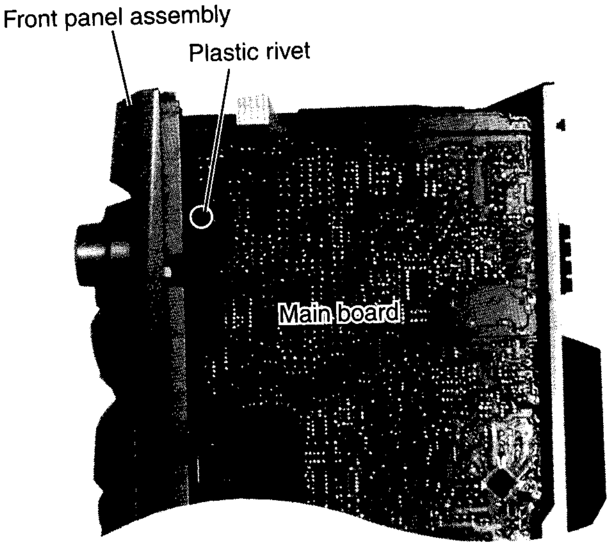

Front panel assembly
Plastic rivet
Main board

Fig.6

< Front Assembly >

■ Removing the Front Panel Assembly

(See Fig.7 to 9)

- Prior to performing the following procedure, remove the metal cover and CD changer mechanism assembly.

1. Disconnect the card wires from connector CN411, CN412 and CN413 on the main board.
2. Disconnect the flat wire from connector CN703 on the amplifier board.
3. Remove the four E screws attaching the front panel assembly on the bottom of the body.
4. Release the two joints(a) and (b) on the lower left and right sides of the body using a screwdriver, and remove the front panel assembly toward the front.

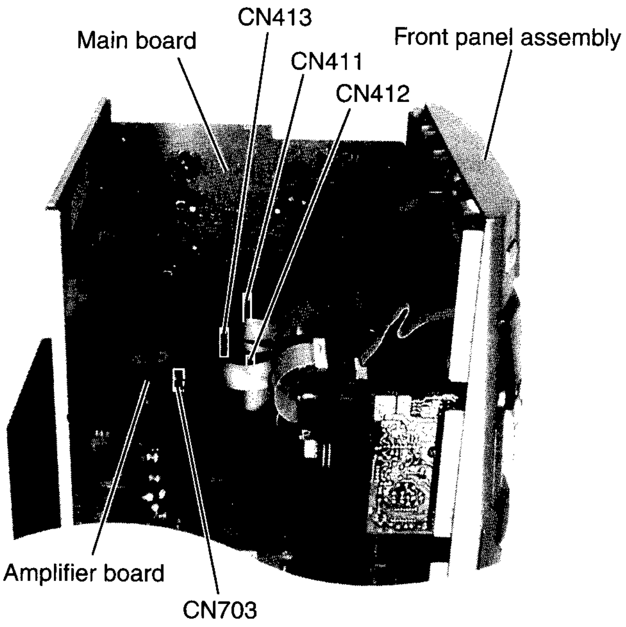

Main board
CN413
CN411
CN412
Front panel assembly
Amplifier board
CN703

Fig.7

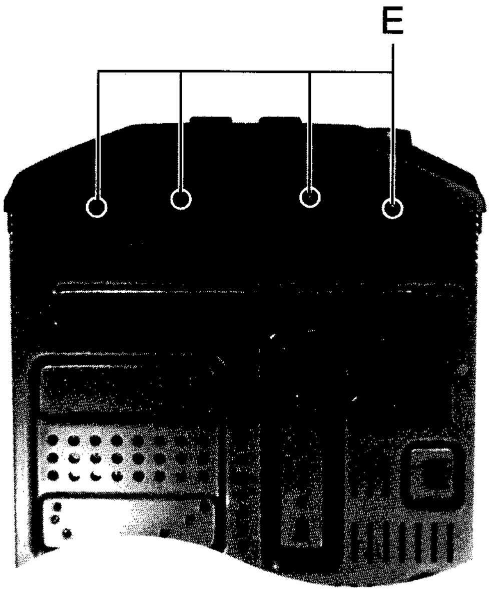


Fig.8

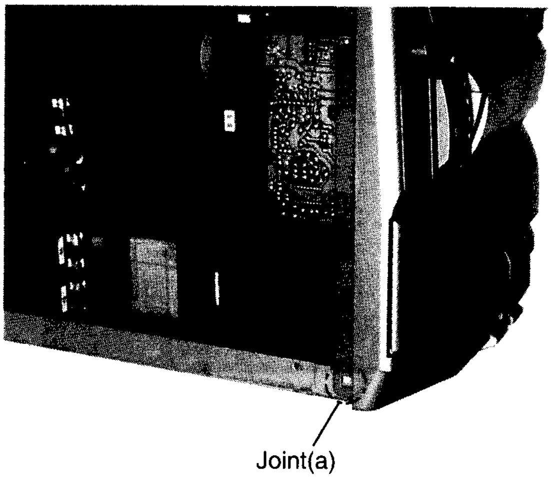


Fig.9a

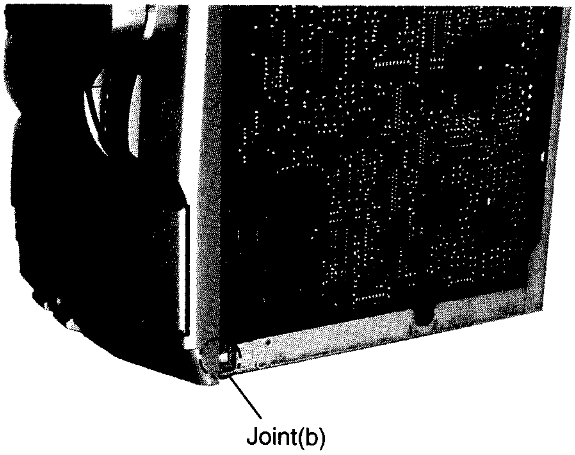


Fig.9b

■ Removing the Rolling Panel assembly

(See Fig.10 and 11)

1. Disconnect the card wires from connector CN817,CN812, CN951 and CN816 on the upper system control & FL board and on the rolling panel assembly on the reverse side of the front panel assembly
2. Disconnect the card wire from connector CN859 on the relay board on the back of the rolling panel assembly.
3. Disconnect the flat wire from connector CN858 on the relay board. (Only Ver.U type)
4. Remove the six F screws attaching the stay bracket.
5. Remove the four G screws attaching the rolling panel assembly.

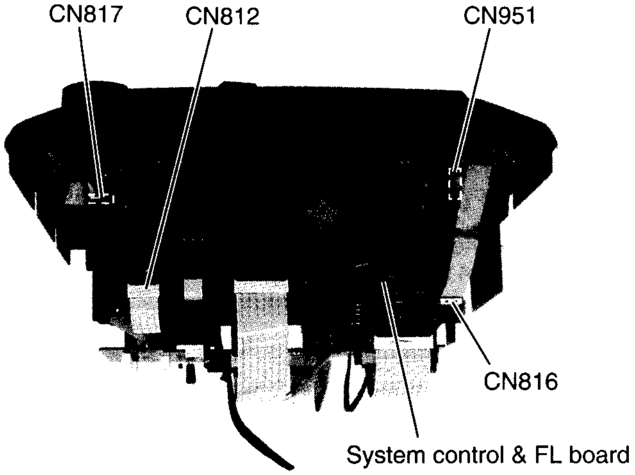

CN817
CN812
CN951
CN816
System control & FL board

Fig.10

* Disconnect the flat wire extending from the phones board through the slit of the rolling panel assembly.

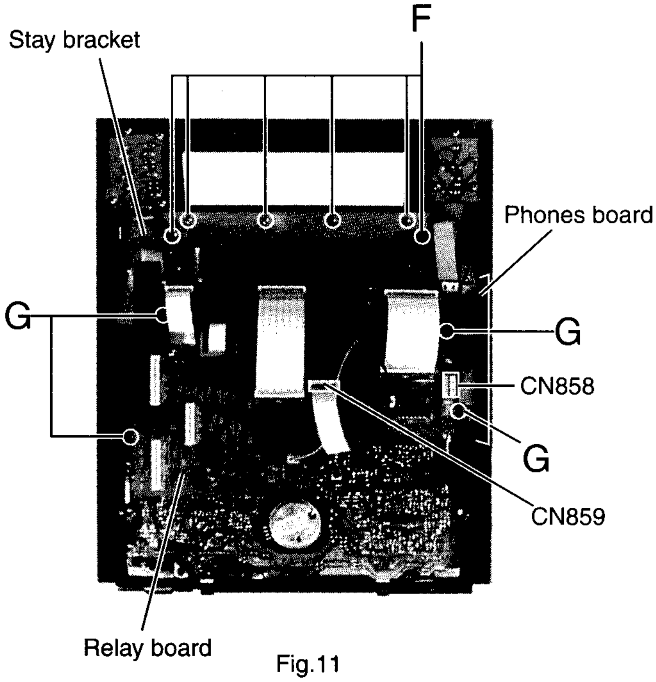

Stay bracket
F
Phones board
G
G
CN858
G
CN859
Relay board

Fig.11

■ Removing the Cassette Mechanism Assembly

(See Fig.12)

- Prior to performing the following procedure, remove the rolling panel assembly.

1. Remove the four H screws and four H1 screws attaching the cassette mechanism assembly.

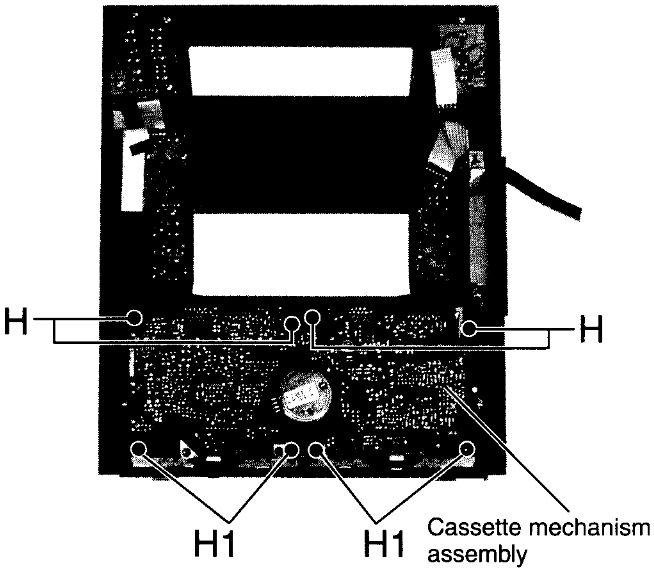

H
H
H1
H1
Cassette mechanism assembly

Fig.12

■ Removing the System Control & FL Board (See Fig.13 and 14)

1. Disconnect the card wires and flat wires from connector CN812, CN817, CN816, CN951, CN813, CN810 and CN811 on the system control & FL board respectively.
2. Disconnect the flat wire from connector D851 on the relay board.
3. Remove the six F screws attaching the stay bracket.
4. Remove the two I screws attaching the system control & FL board.

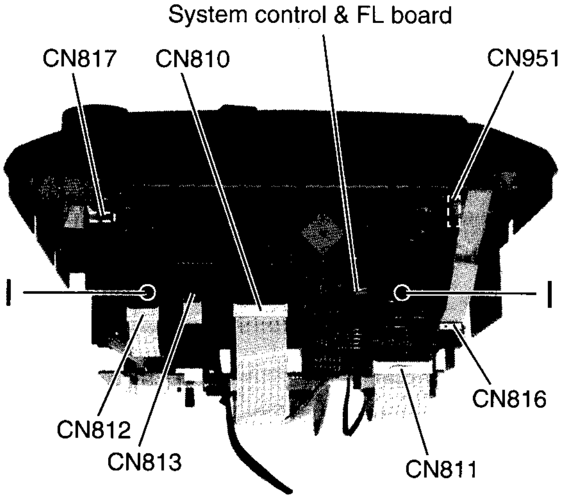

System control & FL board
CN817
CN810
CN951
I
I
CN816
CN812
CN813
CN811

Fig.13

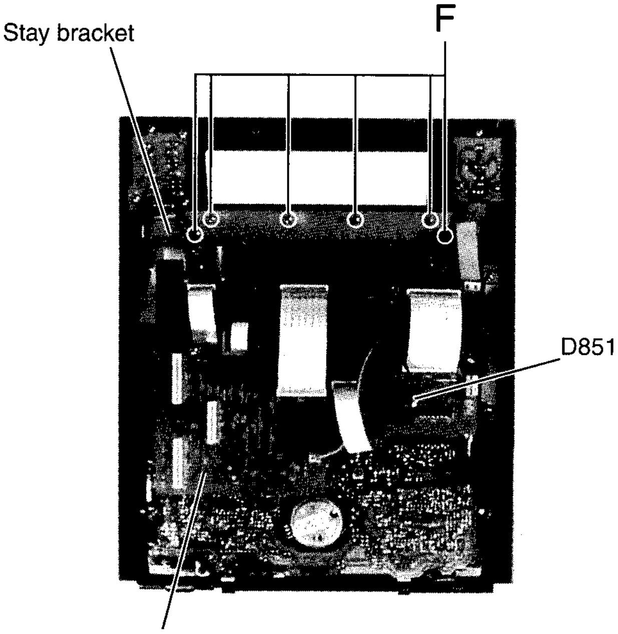

Stay bracket
F
D851
Relay board

Fig.14

■ Removing the Relay Board (See Fig.15)

1. Disconnect the card wires, the 2P harness and the flat wires from connector CN856, CN857, CN859, CN863, CN858 (Only Ver.U type) and D851 on the relay board respectively.
2. Remove the one screw J attaching the relay board.
3. Release the five c tabs fitted to the relay board.

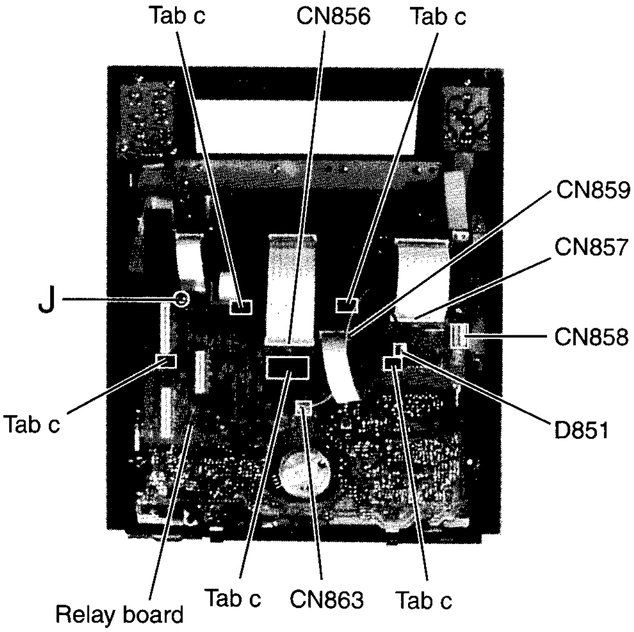

Tab c
CN856
Tab c
CN859
CN857
J
CN858
Tab c
D851
Relay board
Tab c
CN863
Tab c

Fig.15

■ Removing Each Board of the Front Panel Assembly (See Fig.16 and 17)

1. Disconnect the flat wire from connector CN816 on the system control & FL board on top of the rolling panel assembly.
2. Remove the three K screws attaching the power switch board.
3. Remove the two L screws attaching the phones board together with bracket.
   - * Remove the flat wire extending from the phones board through the slit of the rolling panel assembly.
   - * The flat wire connected with CN858 is removed for U version.
   - * The screw H1 is removed and the earth wire is removed for U version.
4. Remove the four M screws attaching the CD eject board and unsolder the flat wire.
   - · Remove the rolling panel assembly.
5. Pull out the volume knob and nut toward the front.
6. Remove the two N screws attaching the volume board and unsolder the flat wire.
7. Remove the three O screws attaching the function board 1 and unsolder the flat wire.
8. Remove the four P screws attaching the function board 2.

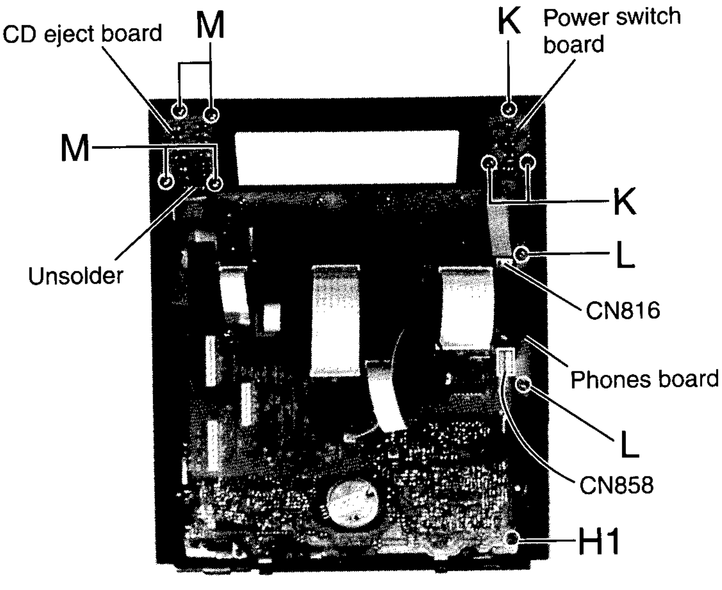

CD eject board
M
K
Power switch board
M
K
Unsolder
L
CN816
Phones board
L
CN858
H1

Fig.16

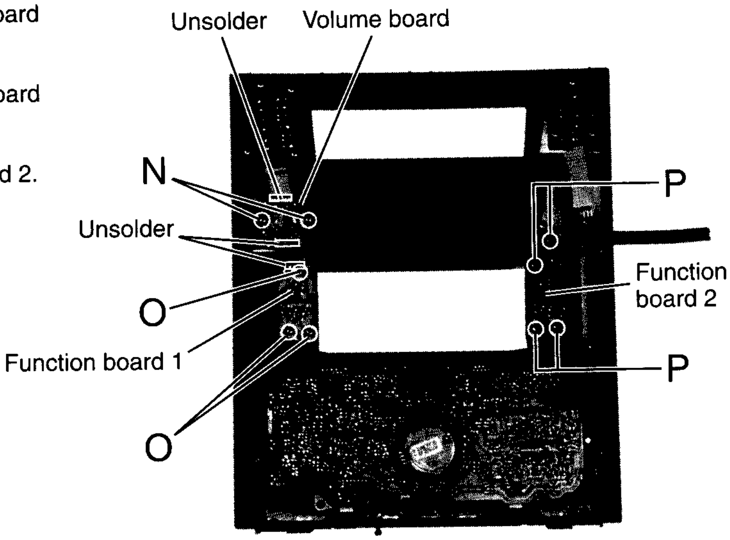

Unsolder
Volume board
N
P
Unsolder
Function board 2
O
Function board 1
P
O

Fig.17

< Rear Panel Assembly >

- Prior to performing the following procedure, remove the metal cover and the CD changer mechanism assembly.
- The following procedure can be performed even if the front panel assembly is attached.

Removing the Rear Cover (See Fig.18)

1. Remove the two Q screws attaching the rear cover on the back of the body.

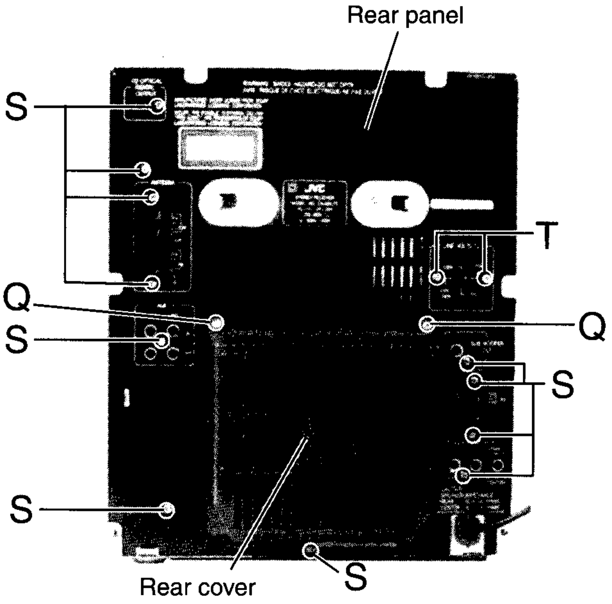


Fig.18

Removing the Rear Panel (See Fig.18 to 21)

- Prior to performing the following procedure, remove the rear cover.

1. Remove the four R screws attaching the heat sink and the rear panel.
2. Remove the eleven S screws attaching the rear panel.
3. Remove the two T screws attaching the voltage selector and the rear panel. (Only Ver.U type)
4. Release the two joints(d) and (e) on the lower part of the rear panel using a screwdriver, and remove the rear panel toward the rear side.

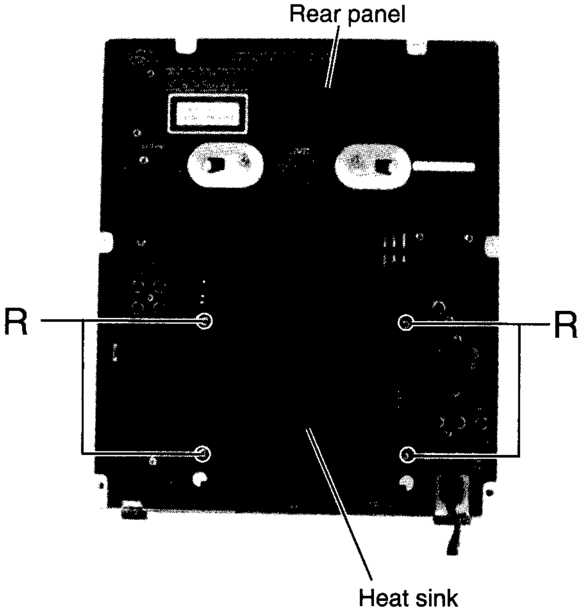


Fig.19

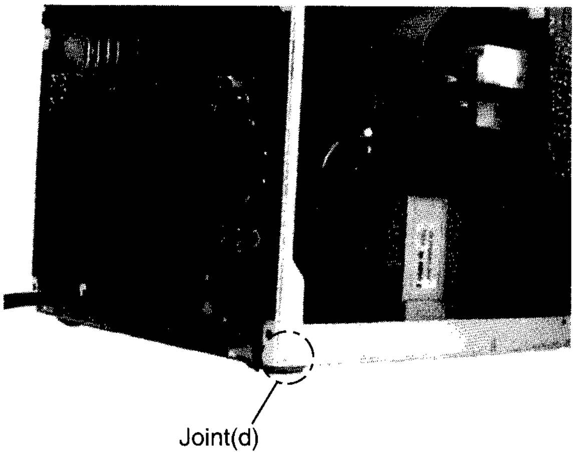


Fig.20

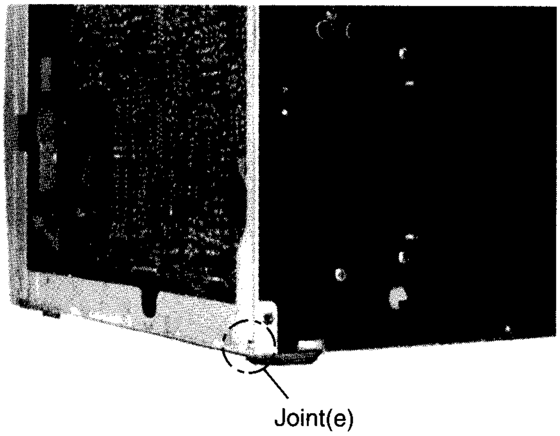


Fig.21

■ Removing the Main Board (See Fig.22 and 23)

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.

1. Disconnect the card wires from connector CN411, CN412 and CN413 on the main board and the flat wire from connectors CN414 and CN415.
2. Remove the screw U attaching the main board on the right side of the body.
3. Disconnect connector CN416 and CN417 under the main board, and remove the main board upward.

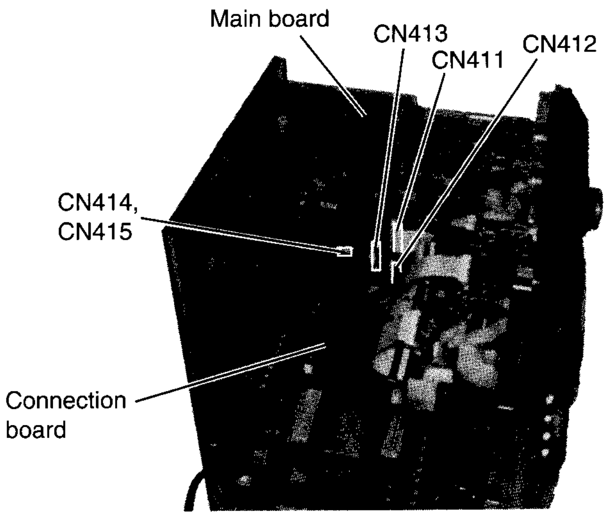

Main board
CN413
CN411
CN412
CN414,
CN415
Connection
board

Fig.22

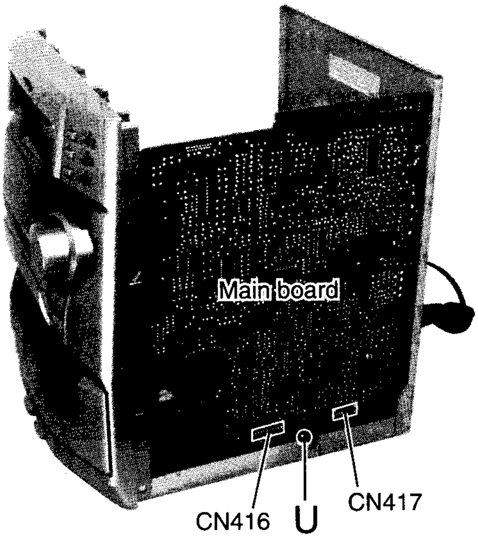

Main board
CN416
U
CN417

Fig.23

■ Removing the Rated Voltage Board and Power Amplifier Board (See Fig.22, 24 and 25)

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.
- The following procedure can be performed even if the front panel assembly is attached.

1. Remove the connection board from connectors CN703 on the power amplifier board and CN704 on the rear/center power amplifir board.
2. Disconnect the flat wire from connector CN414, CN415 on the main board.
3. Pull out the rated voltage board and the power amplifier board and the rear/center power amplifier board upward from connectors CN102,CN103 and CN104 on the power board respectively.
4. Remove the two V screws,one V' screw and two W screws attaching the heat sink together with the heat sink bracket.

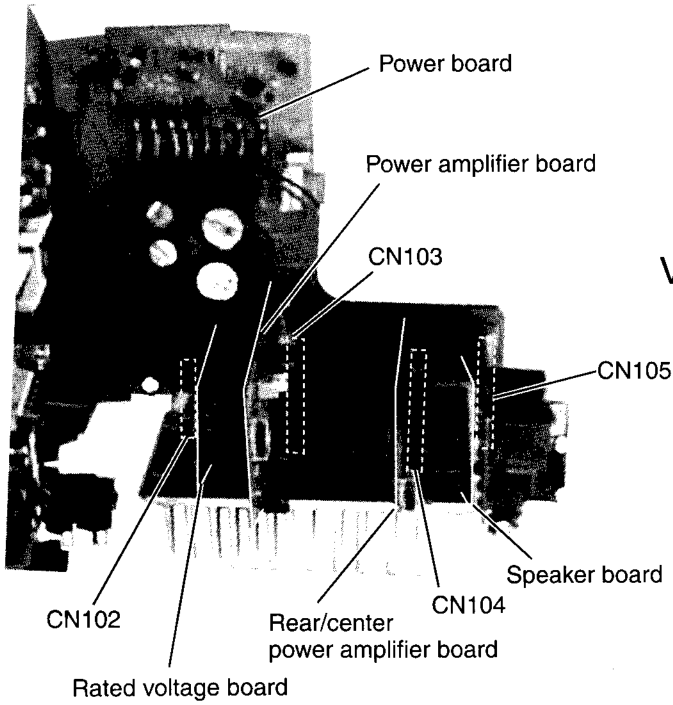

Power board
Power amplifier board
CN103
CN105
Speaker board
CN104
CN102
Rear/center
power amplifier board
Rated voltage board

Fig.24

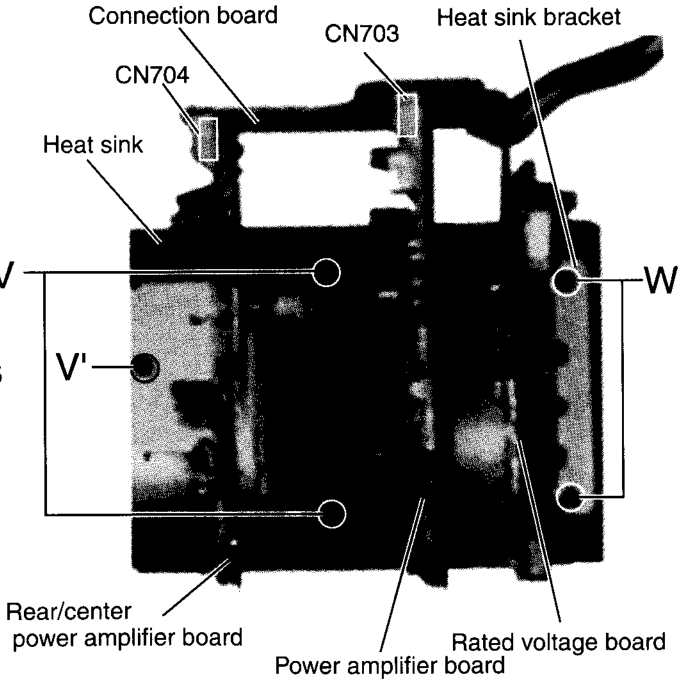

Connection board
CN703
Heat sink bracket
CN704
Heat sink
V
V'
W
Rear/center
power amplifier board
Power amplifier board
Rated voltage board

Fig.25

■ Removing the Speaker Board (See Fig.24)

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.
- The following procedure can be performed even if the front panel assembly is attached.

1. Pull out the speaker board upward from connector CN105 on the power board.

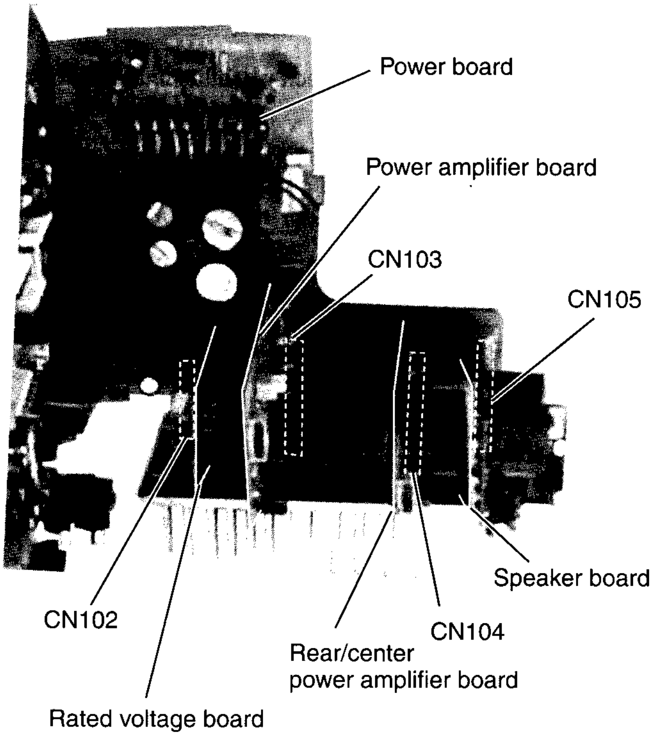

Power board
Power amplifier board
CN103
CN105
Speaker board
CN102
CN104
Rear/center
power amplifier board
Rated voltage board

Fig.24

■ Removing the Power Transformer Board (See Fig.26)

- Prior to performing the following procedure, remove the metal cover, the CD changer mechanism assembly and the rear panel.

1. Disconnect the 5P harness and the flat wire from connector CN109 and CN111 on the power board.
2. Remove the four X screws attaching the power transformer assembly.
3. Push the cord stopper upward to remove it.

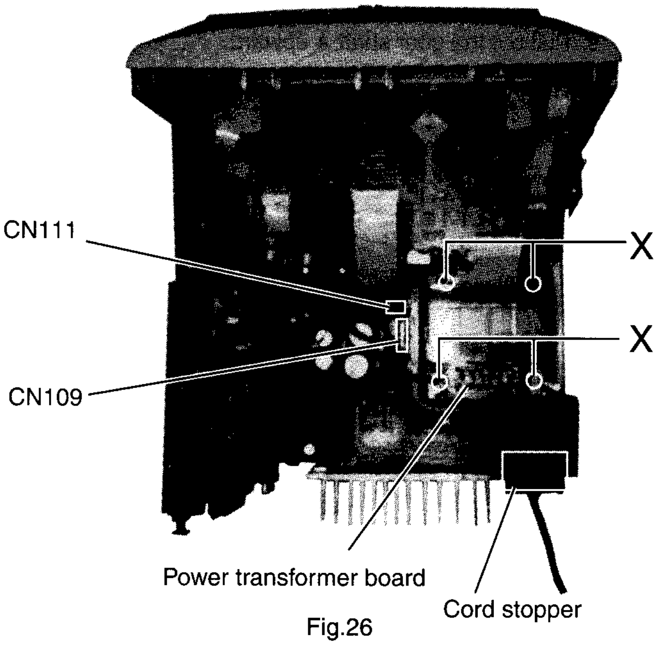

CN111
X
X
CN109
Power transformer board
Cord stopper

Fig.26

■ Removing the rolling Panel Assembly (See Fig.27)

1. Remove the two Y screws attaching the rolling panel assembly.
2. Remove the rolling panel assembly while pulling outward the left and right hooks attaching the rolling panel assembly.

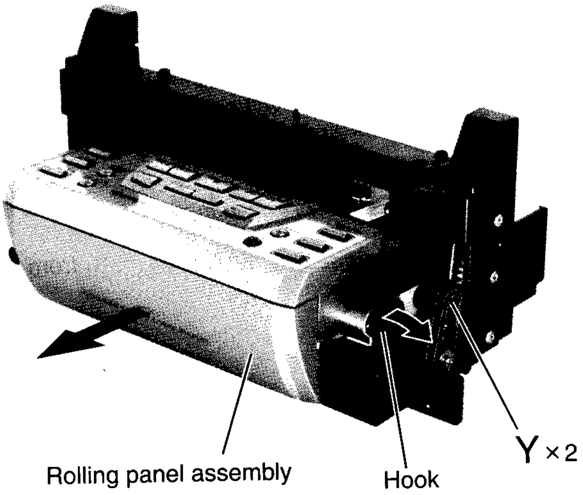

Rolling panel assembly
Hook
Y ×2

Fig.27

■ Removing the operation switch Board (See Fig.28 and 29)

1. Remove the six Z screws attaching the cover and the bracket.
2. Release the two f tabs fitted to the bracket, and pull out the left and right panel holders.
3. Remove the two A screws attaching the operation switch board.

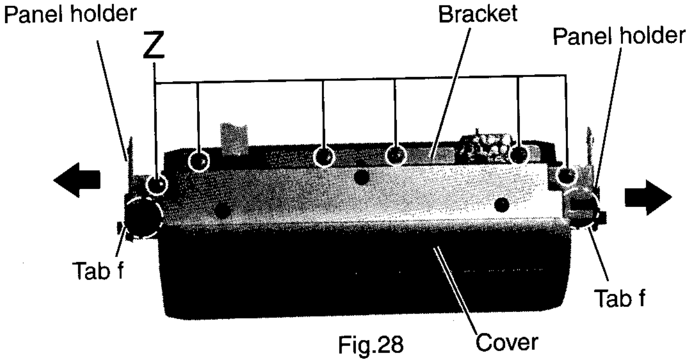

Panel holder
Z
Bracket
Panel holder
Tab f
Tab f
Cover

Fig.28

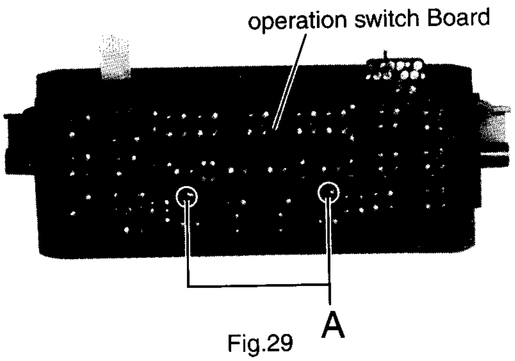

operation switch Board
A

Fig.29

■ Removing the Drive Motor (See Fig.30 and 31)

1. Remove the two B screws and the two C screw attaching
2. Pull out the gear shaft A upward.
3. Remove the motor belt.

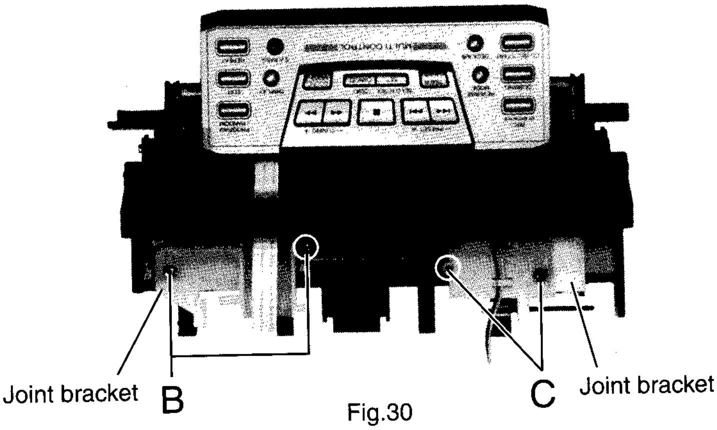

Joint bracket
B
C
Joint bracket

Fig.30

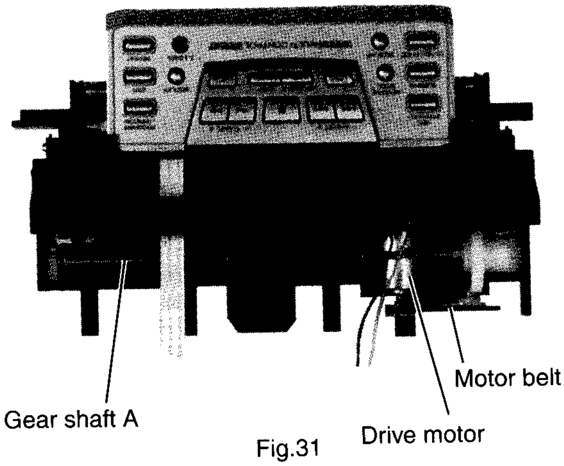

Gear shaft A
Motor belt
Drive motor

Fig.31

≪CD Changer Mechanism Type:VC3 Section≫

■Removing the CD Servo control board (See Fig.1)

1. Remove the metal cover.
2. Remove the CD changer mechanism assembly.
3. From bottom side the CD changer mechanism assembly, remove the two screws 1 retaining the CD servo control board.
4. Absorb the four soldered positions "M" of the right and left motors with a soldering absorber.
5. Pull out the earth wire on the CD changer mechanism assembly.
6. The two screws A is removed and C.B.holder is detached.
7. Disconnect the connector CN854 on the CD servo control board.
8. Disconnect the card wire CN601 and the connector CN801 on the CD servo control board.

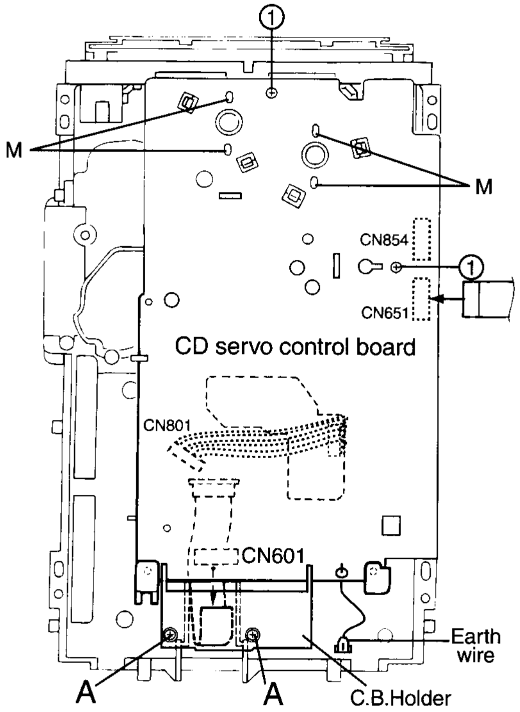

①
M
M
CN854
①
CN651
CD servo control board
CN801
CN601
Earth wire
A
A
C.B.Holder

Fig.1

■Removing the CD tray assembly (See Fig.2~4)

1. Remove the front panel assembly.
2. Remove the CD changer mechanism assembly.
3. Remove the CD Servo control board.
4. From the T.bracket section "B" and clamper base section "C" , remove both of the edges fixing the rod(See Fig.2 and 3).
5. Remove the screw 2 retaining the Disc stopper (See Fig.3).
6. Remove the three screws 3 retaining the T.bracket (See Fig.3).
7. Remove the screws 4 retaining the clamper assembly (See Fig.3).
8. From the left side face of the chassis assembly, remove the one screw 5 retaining both of the return spring and lock lever(See Fig. 4).
9. By removing the pawl at the section "D" fixing the return spring, dismount the return spring(See Fig.4).
10. Remove the three lock levers(See Fig.4).

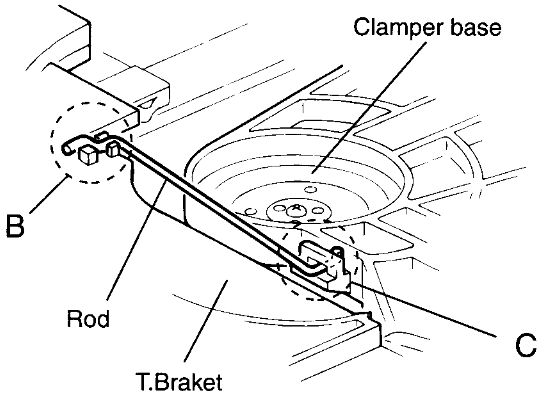

Clamper base
B
Rod
T.Braket
C

Fig.2

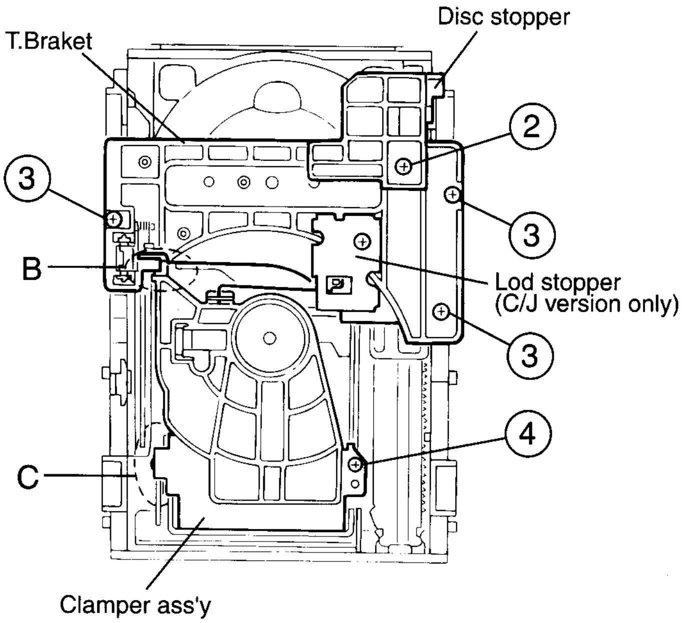

Disc stopper
T.Braket
③
②
③
B
Lod stopper (C/J version only)
③
④
C
Clamper ass'y

Fig.3

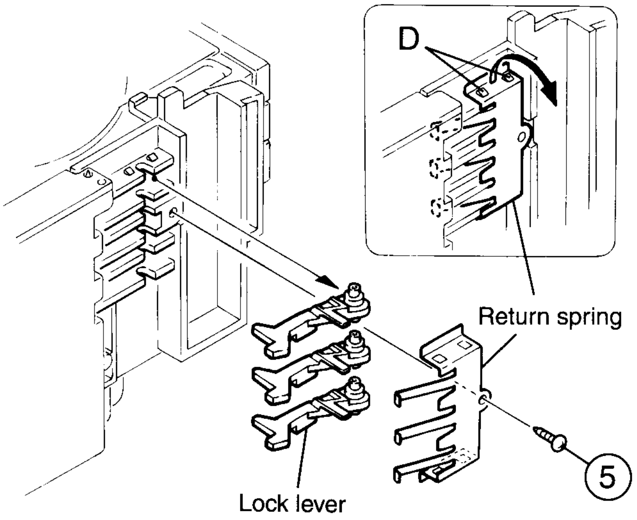

D
Return spring
Lock lever
⑤

Fig.4

11. Check whether the lifter unit stopper has been caught into the hole at the section "E" of CD tray assembly as shown in Fig.5.
12. Make sure that the driver unit elevator is positioned as shown in Fig.6 from to the second or fifth hole on the left side face of the CD changer mechanism assembly.

[Caution] In case the driver unit elevator is not at above position, set the elevator to the position as shown in Fig.7 by manually turning the pulley gear as shown in Fig.8.

13. Manually turn the motor pulley in the clockwise direction until the lifter unit stopper is lowered from the section "E" of CD tray assembly(See Fig.8).
14. Pull out all of the three stages of CD tray assembly in the arrow direction "F" until these stages stop (See Fig.6).
15. At the position where the CD tray assembly has stopped, pull out the CD tray assembly while pressing the two pawls "G and G" on the back side of CD tray assembly(See Fig.9). In this case, it is easy to pull out the assembly when it is pulled out first from the stage CD tray assembly.

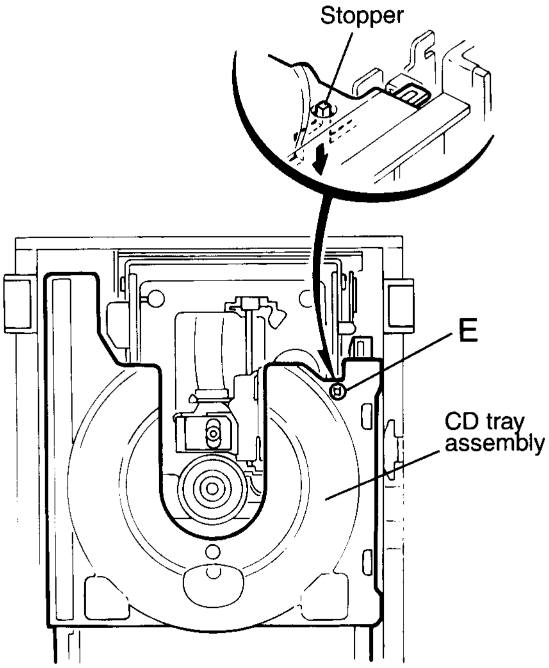

Stopper
E
CD tray assembly

Fig.5

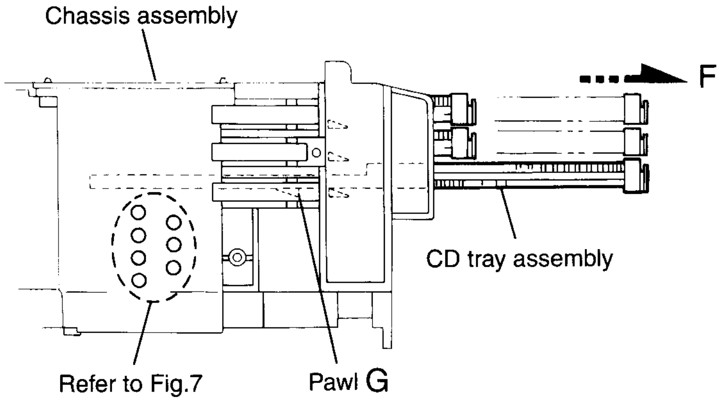

Chassis assembly
F
CD tray assembly
Refer to Fig.7
Pawl G

Fig.6

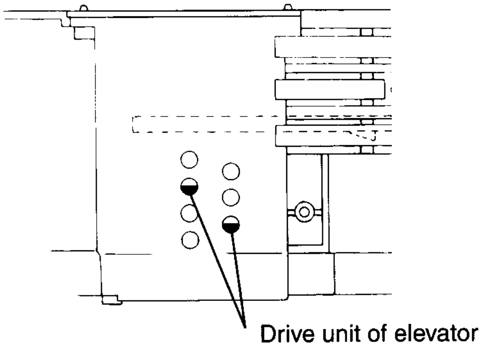

Drive unit of elevator

Fig.7

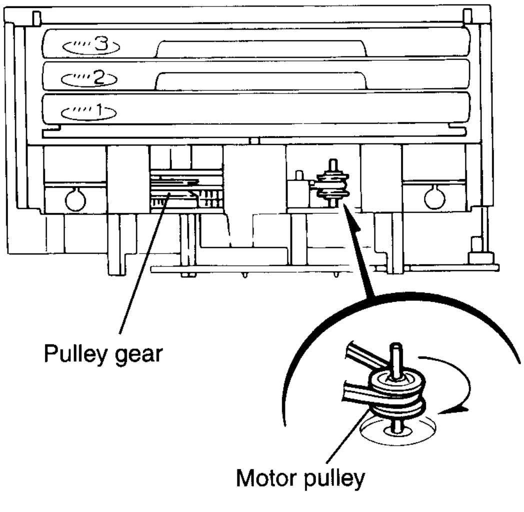

3
2
1
Pulley gear
Motor pulley

Fig.8

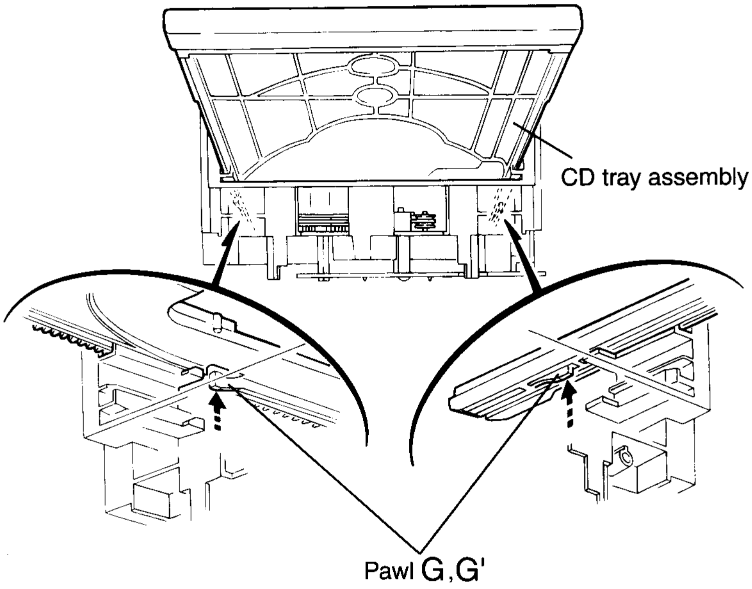

CD tray assembly
Pawl G,G'

Fig.9

■ Removing the CD loading mechanism assembly(See Fig.10)

1. While turning the cams R1 and R2 assembly in the arrow direction "H" , align the shaft "I" of the CD loading mechanism assembly to the position shown in
2. Fig.10.
   Remove the four screws 6 retaining the CD loading mechanism assembly.

■ Removing the CD traverse mechanism (See Fig.11 and 12)

1. For dismounting only the CD traverse mechanism without removing the CD loading mechanism assembly, align the shaft "J" of the CD loading mechanism assembly to the position shown Fig.11 while turning the cam R1 and R2 assembly in the arrow direction "K" .
2. By raising the CD loading mechanism assembly in the arrow direction "L" , remove the assembly from the lifter unit

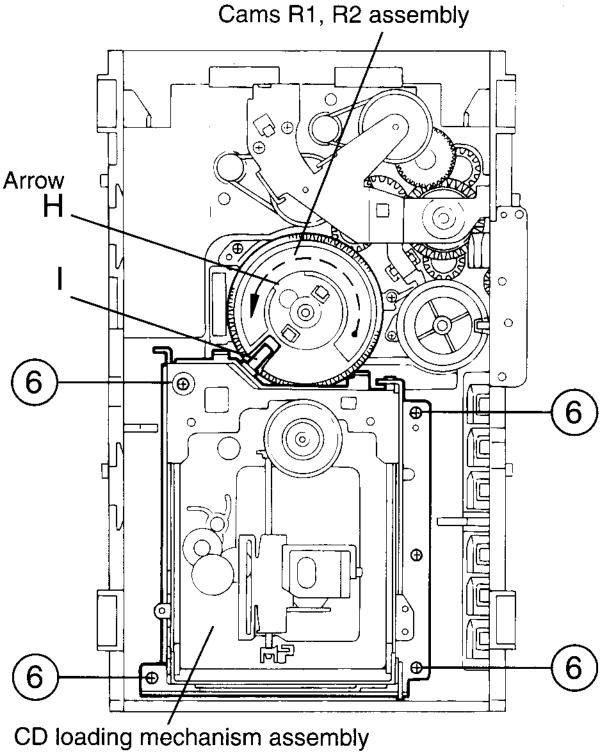

Cams R1, R2 assembly
Arrow
H
I
⑥
⑥
⑥
⑥
CD loading mechanism assembly

Fig.10

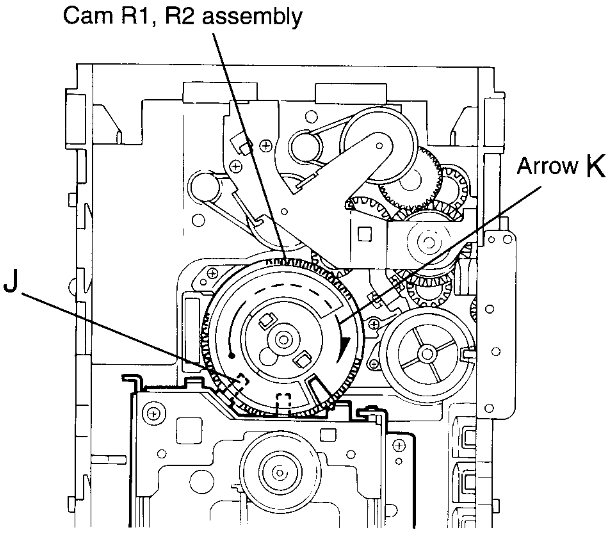

Cam R1, R2 assembly
Arrow K
J

Fig.11

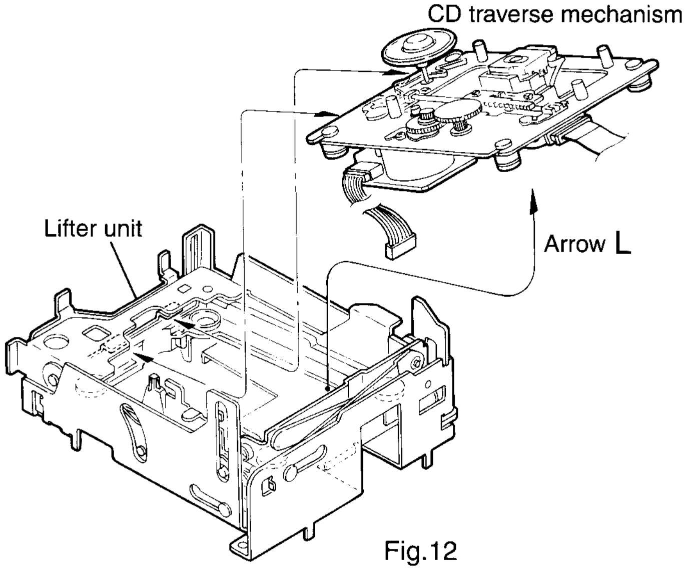

CD traverse mechanism
Lifter unit
Arrow L

Fig.12

■ Removing the CD pick unit (See Fig.13)

1. Move the cam gear in the arrow direction a . Then, the CD pickup unit will be moved in the arrow direction b .
2. According to the above step, shift the CD pickup unit to the center position.
3. While pressing the stopper retaining the shaft in the arrow direction c , pull out the shaft in the arrow direction d .
4. After dismounting the shaft from the CD pickup unit, remove the CD pickup unit

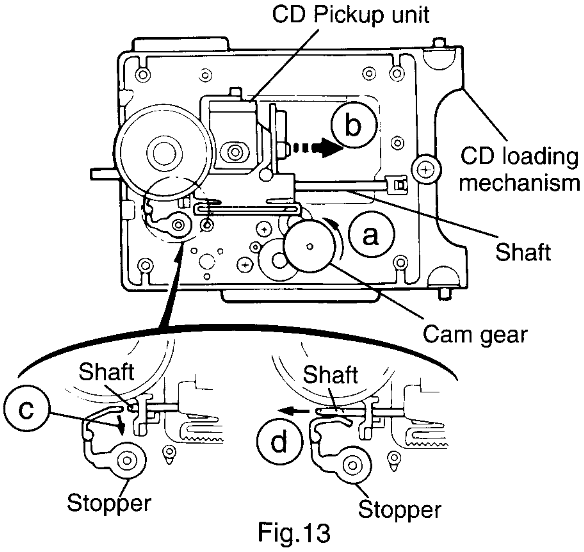

CD Pickup unit
b
CD loading mechanism
a
Shaft
Cam gear
Shaft
Shaft
c
d
Stopper
Stopper

Fig.13

■ Removing the cam unit (See Fig.14 ~17)

1. Remove the CD loading mechanism assembly.
2. While turning the cam gear L, align the pawl "N" position of the drive unit to the notch position(Fig.16) on the cam gear L.
3. Pull out the drive unit and cylinder gear(See Fig.17).
4. While turning the cam gear L, align the pawl "O" position of the select lever to the notch position(Fig.18) on the cam gear L.
5. Remove the four screws 9 retaining the cam unit(cam gear L and cams R1/R2 assembly)(See Fig.18).

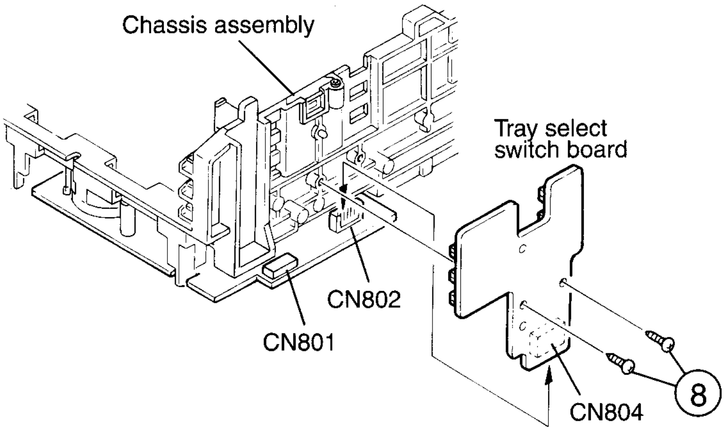

Chassis assembly
Tray select switch board
CN802
CN801
CN804
8

Fig.14

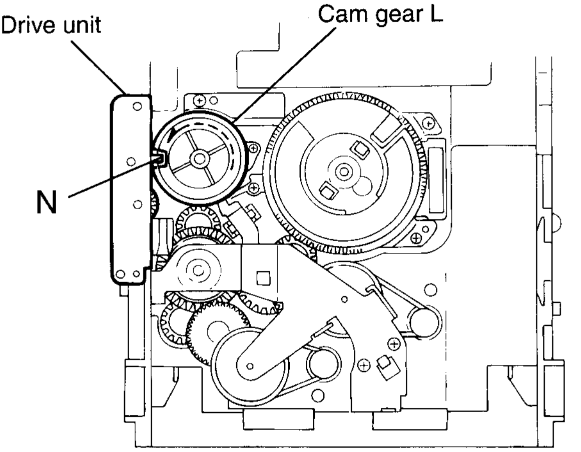

Drive unit
Cam gear L
N

Fig.15

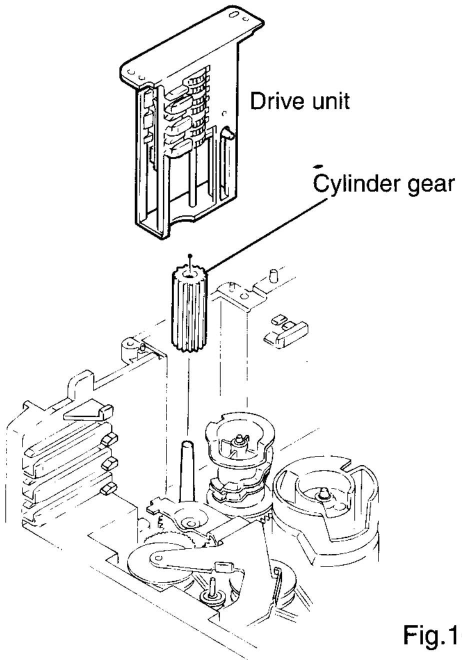

Drive unit
Cylinder gear

Fig.16

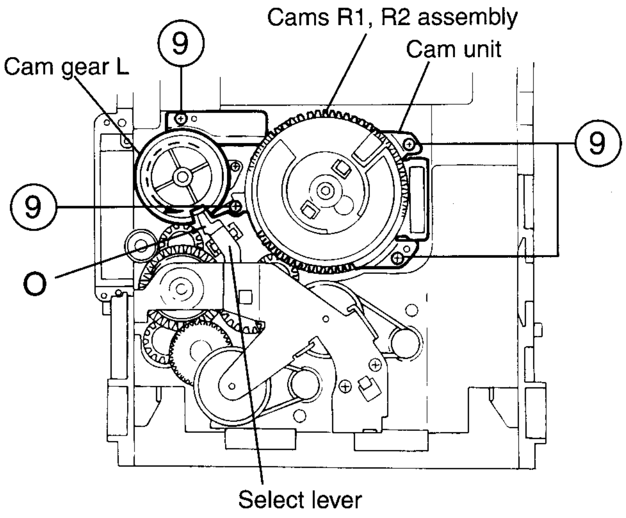

Cams R1, R2 assembly
9
Cam unit
Cam gear L
9
9
O
Select lever

Fig.17

■Removing the actuator motor and belt (See Fig.18~21)

1. Remove the two screws 10 retaining the gear bracket (See Fig.19).
2. While pressing the pawl "P" fixing the gear bracket in the arrow direction, remove the gear bracket (See Fig.19).
3. From the notch "Q section" on the chassis assembly fixing the edge of gear bracket, remove and take out the gear bracket(See Fig. 20).
4. Remove the belts respectively from the right and left actuator motor pulleys and pulley gears(See Fig. 19).
5. After turning over the chassis assembly, remove the actuator motor while spreading the four pawls "R" fixing the right and left actuator motors in the arrow direction(See Fig. 21).

[Note] When the chassis assembly is turned over under the conditions wherein the gear bracket and belt have been removed, then the pulley gear as well as the gear, etc. constituting the gear unit can possibly be separated to pieces. In such a case, assemble these parts by referring to the assembly and configuration diagram in Fig. 22.

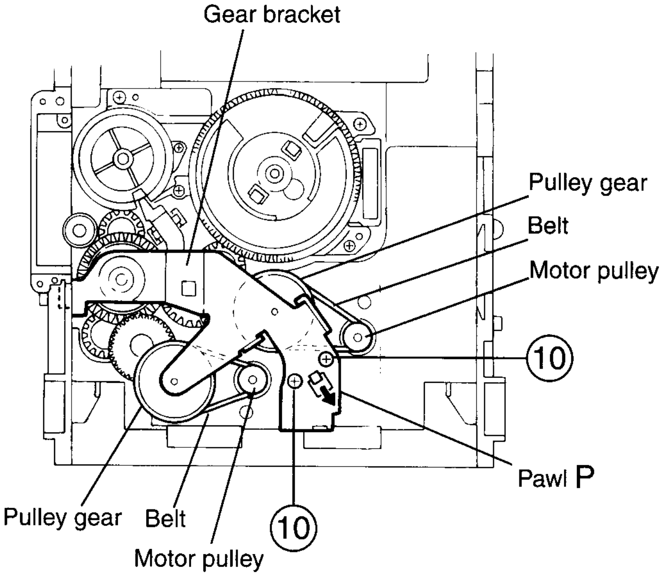

Gear bracket
Pulley gear
Belt
Motor pulley
⑩
Pawl P
Pulley gear
Belt
⑩
Motor pulley

Fig.18

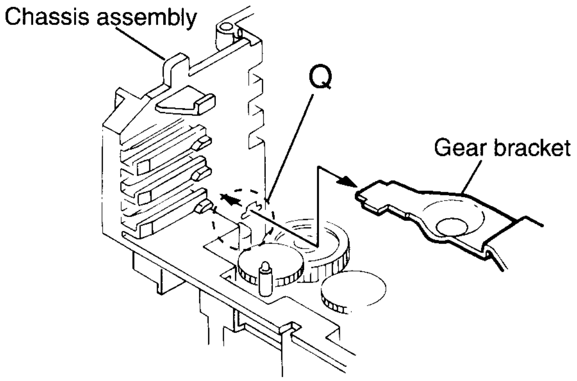

Chassis assembly
Q
Gear bracket

Fig.19

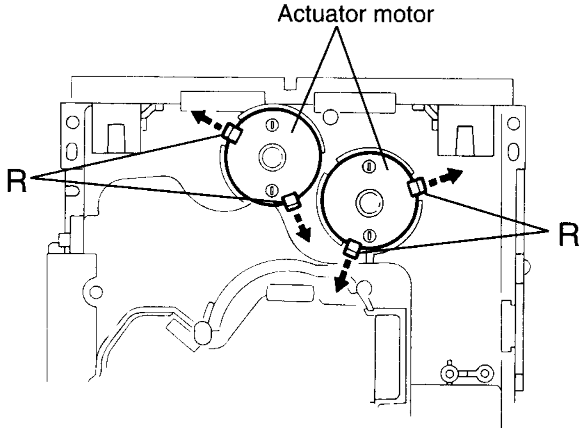

Actuator motor
R
R

Fig.20

Assembly and Configuration Diagram

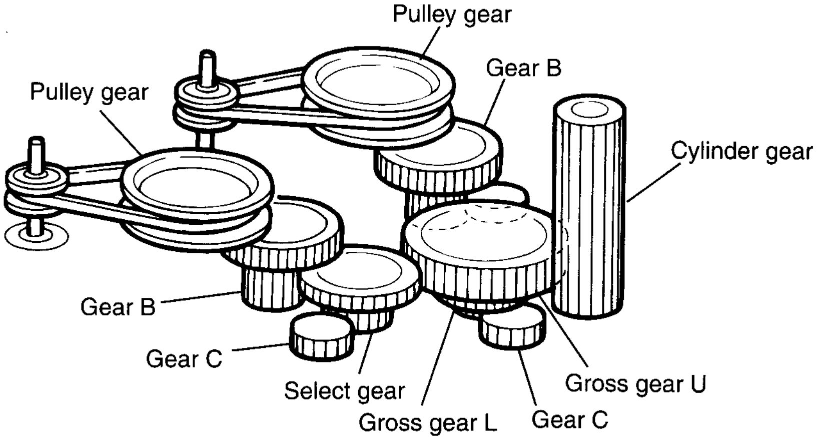

Pulley gear
Gear B
Pulley gear
Cylinder gear
Gear B
Gear C
Select gear
Gross gear L
Gear C
Gross gear U

Fig.21

■Removing the cams R1/R2 assembly and cam gear L(See Fig.22)

1. Remove the slit washer fixing the cams R1 and R2 assembly.
2. By removing the two pawls "S" fixing the cam R1, separate R2 from R1.
3. Remove the slit washer fixing the cam gear L.
4. Pull out the cam gear L from the C.G. base assembly.

■Removing the C.G. base assembly (See Fig.22 and 23)

Remove the three screws 11 retaining the C.G. base assembly.

[Caution] To reassemble the cylinder gear, etc.with the cam unit (cam gear and cans R1/R2 assembly), gear unit and drive unit, align the position of the pawl "N" on the drive unit to that o f the notch on the cam gear L. Then, make sure that the gear unit is engaged by turning the cam gear L (See Fig. 24).

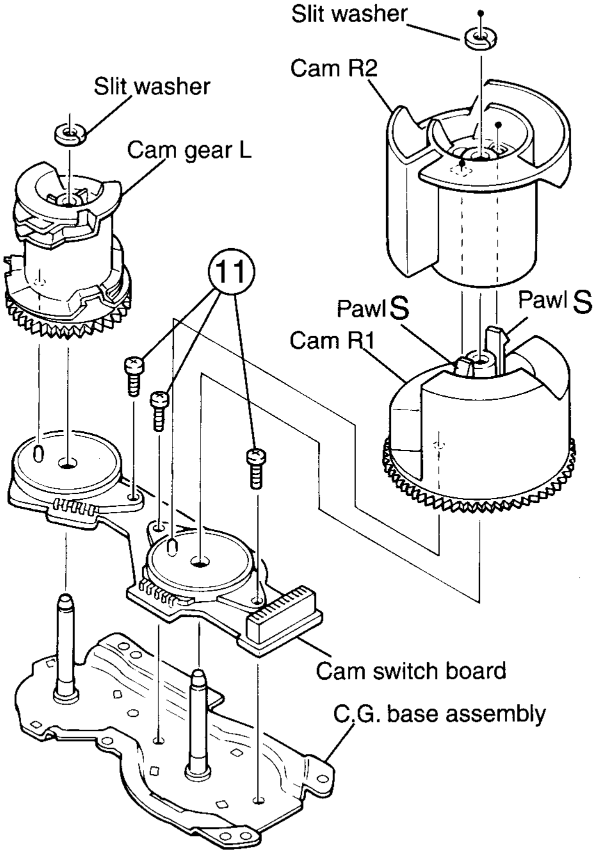

Slit washer
Cam R2
Slit washer
Cam gear L
⑪
Pawl S
Pawl S
Cam R1
Cam switch board
C.G. base assembly

Fig.22

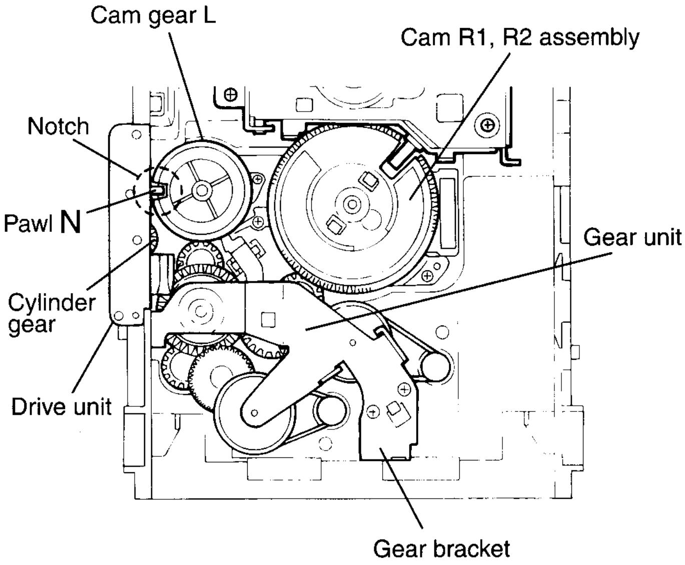

Cam gear L
Cam R1, R2 assembly
Notch
Pawl N
Gear unit
Cylinder gear
Drive unit
Gear bracket

Fig.23

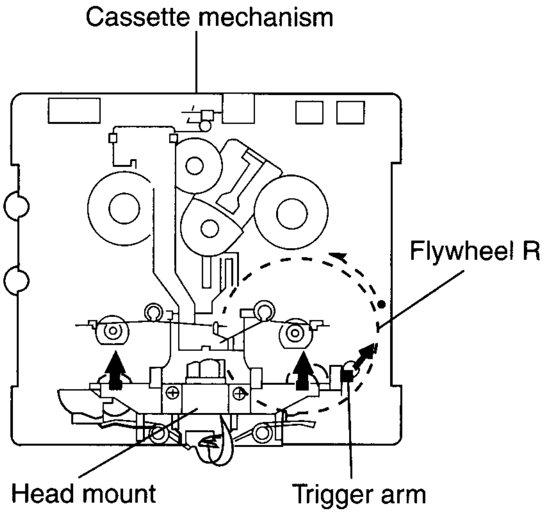
< Cassette Mechanism Section >

■ Removing the Playback,Recording and Eraser Heads

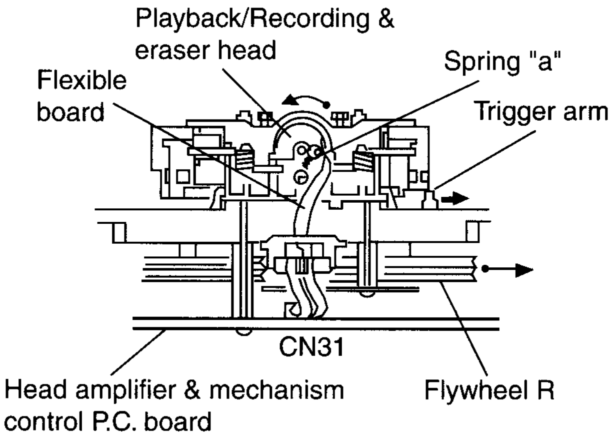
1. While shifting the trigger arms seen on the right side of the head mount in the arrow direction,turn the flywheel R in counterclockwise direction until the head mount has gone out with a click (See Fig 1).
2. When the flywheel R is rotated in counterclockwise direction, the playback head will be turned in counterclockwise direction from the position in Fig 2 to that in Fig 3.
3. At this position, disconnect the flexible P.C.board (outgoing from the playback head) from the connector CN301 on the head amp. and mechanism control P.C. board.
4. After dismounting the FPC holder,remove the flexible P.C.board.
5. Remove the flexible P.C.board from the chassis base.
6. Remove the spring "a" from behind the playback head.
7. Loosen the reversing azimuth screw retaining the playback head.
8. Take out the playback head from the front of the head mount.
9. The recording and eraser heads should also be removed similarly according to Steps 1~8 above.

● Reassembling the Playback, Recording and Eraser Heads

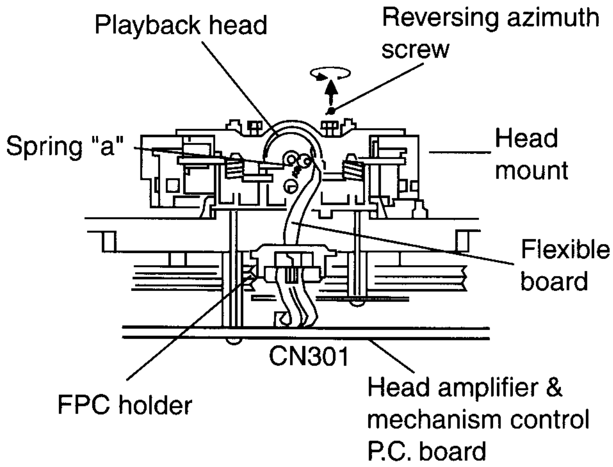
1. Reassemble the playback head from the front of the head mount to the position as shown in Fig 3.
2. Fix the reversing azimuth screw.
3. Set the spring a from behind the playback head.
4. Attach the flexible P.C.board to the chassis base, and fix it with the FPC holder as shown in Fig 3.
5. The recording and eraser heads should also be reassembled similarly according to Steps 1~4 above.


Cassette mechanism
Flywheel R
Head mount
Trigger arm

(Mechanism A side)


Playback/Recording & eraser head
Flexible board
Spring "a"
Trigger arm
CN31
Head amplifier & mechanism control P.C. board
Flywheel R

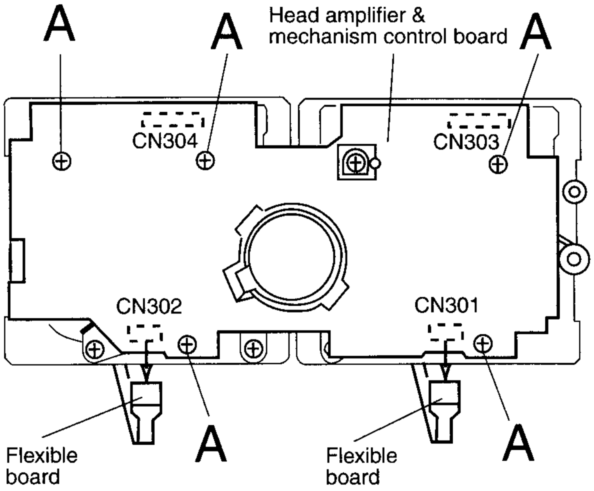
(Mechanism A side)


Playback head
Reversing azimuth screw
Spring "a"
Head mount
Flexible board
CN301
FPC holder
Head amplifier & mechanism control P.C. board

(Mechanism B side)

■ Removing the head Amp.and Mechanism Control P.C.Board (See Fig 4)

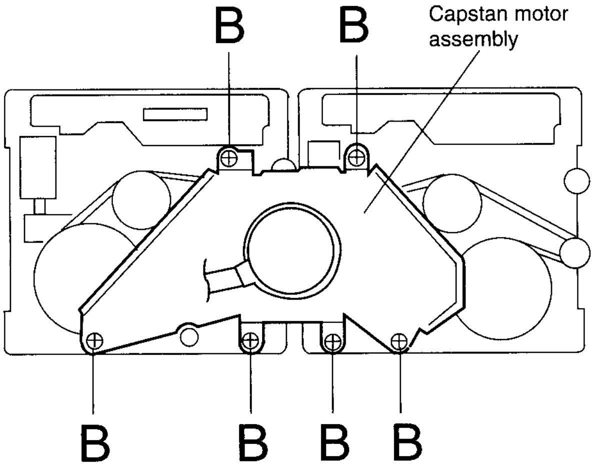
1. Remove the cassette mechanism assembly.
2. After turning over the cassette mechanism assembly,remove the five screws "A" retaining the head amp. and mechanism control P.C. board
3. Disconnect the connectors CN303 and CN304 on the P.C.Board and the connectors CN1 on both the right and left side reel pulse P.C.Boards.
4. When necessary, remove the 4pin parallel wire soldered to the main motor

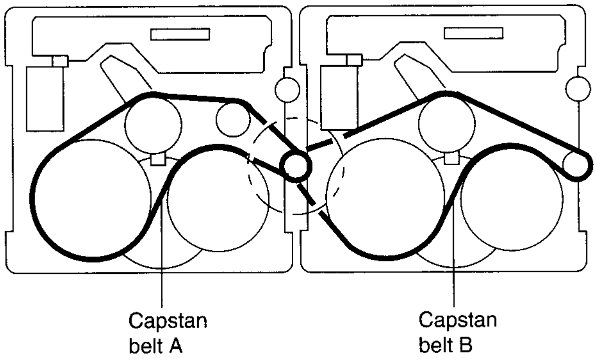

A
A
Head amplifier & mechanism control board
A
CN304
CN303
CN302
CN301
Flexible board
A
Flexible board
A

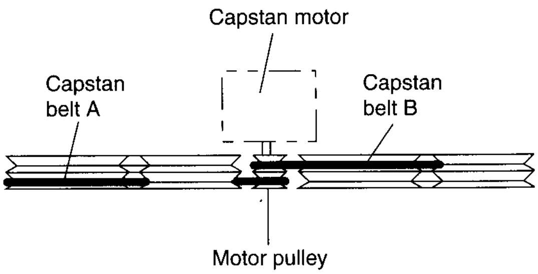
■ Removing the Capstan Motor Assembly

1. Remove the six screws "B" retaining capstan motor assembly (See Fig 5).
2. While raising the capstan motor, remove the capstan belts A and B respectively from the motor pulley (See Fig 6).

Caution 1: Be sure to handle the capstan belts so carefully that these belts will not be stained by grease and other foreign matter. Moreover, these belts should be hand while referring to the capstan belt hanging method.

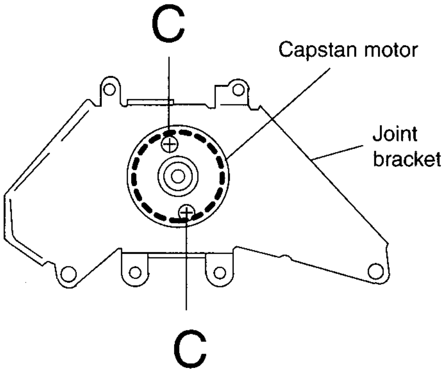

B
B
Capstan motor assembly
B
B
B
B


Capstan belt A
Capstan belt B


Capstan motor
Capstan belt A
Capstan belt B
Motor pulley

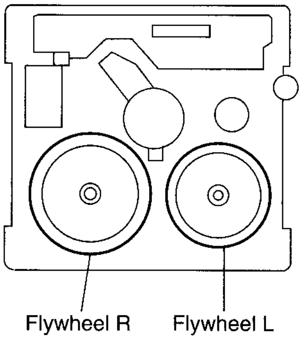
Removing the Capstan Motor (See Fig 8)

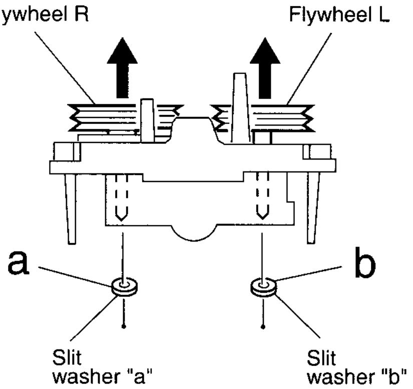
From the joint bracket, remove the two screws "C" retaining the capstan motor.


C
Capstan motor
Joint bracket
C

Removing the Flywheel (See Fig 9.10)

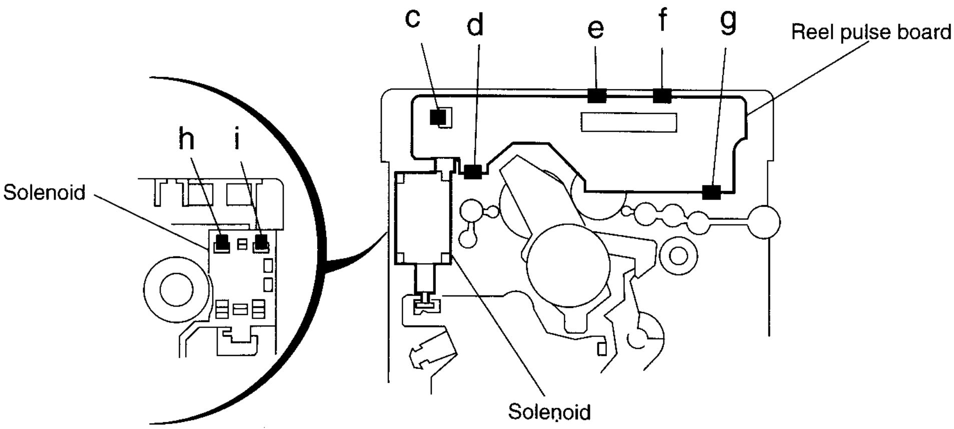
1. Remove the head amp. and mechanism control P.C.Board.
2. Remove the capstan motor assembly.
3. After turning over the cassette mechanism, remove the slit washers "a" and "b" fixing the capstan shafts R and L, and pull out the flywheels R and L respectively from behind the cassette mechanism.


Flywheel R
Flywheel L


Flywheel R
Flywheel L
a
b
Slit washer "a"
Slit washer "b"

Removing the Reel Pulse P.C.Board and Solenoid (See Fig 11)

1. Remove the five pawls (c,d,e,f,g) retaining the reel pulse P.C.Board.
2. From the surface of the reel pulse P.C.Board parts, remove the two pawls "h" and "i" retaining the solenoid.


c
d
e
f
g
Reel pulse board
h
i
Solenoid
Solenoid

Flow of functional operation until TOC read

Power ON → Play Key → Slider turns REST SW ON.

Check Point

Confirm that the voltage at the pin5 of CN801 is "H"\"L"\"H".

Automatic tuning of TE offset

Laser ON → Check that the voltage at the pin40 of IC651 is + 5V?

Detection of disc

Automatic tuning of Focus offset

Automatic measurement of Focus S-curve amplitude → Confirm that the Focus error S-cuve signal at the pin28 of IC651 is approx.2Vp-p

Disc is rotated → Confirm that the signal from pin24 IC651 is 0V as a accelerated pulse during approx.400ms.

Focus servo ON (Tracking servo ON)

Automatic measurement of Tracking error amplitude → Confirm the waveform of the Tracking error signal. at the pin 25 of IC601 (R604) (See fig-1)

Automatic tuning of Tracking error balance

Automatic tuning of Focus error balance

Automatic tuning of Focus error gain

Automatic tuning of Tracking error gain

TOC reading → Confirm the eye-pattern at the lead of TP1

Play a disc

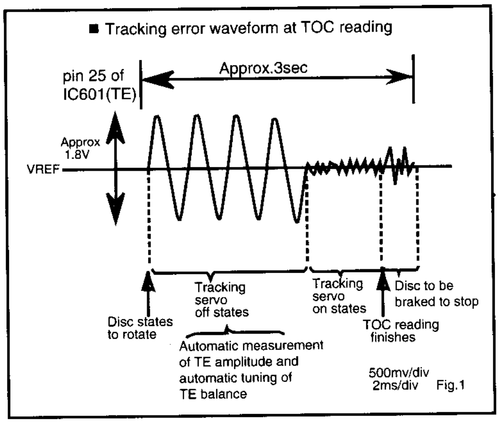
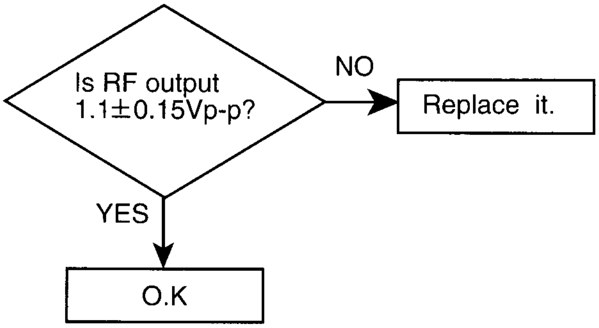


Fig.1

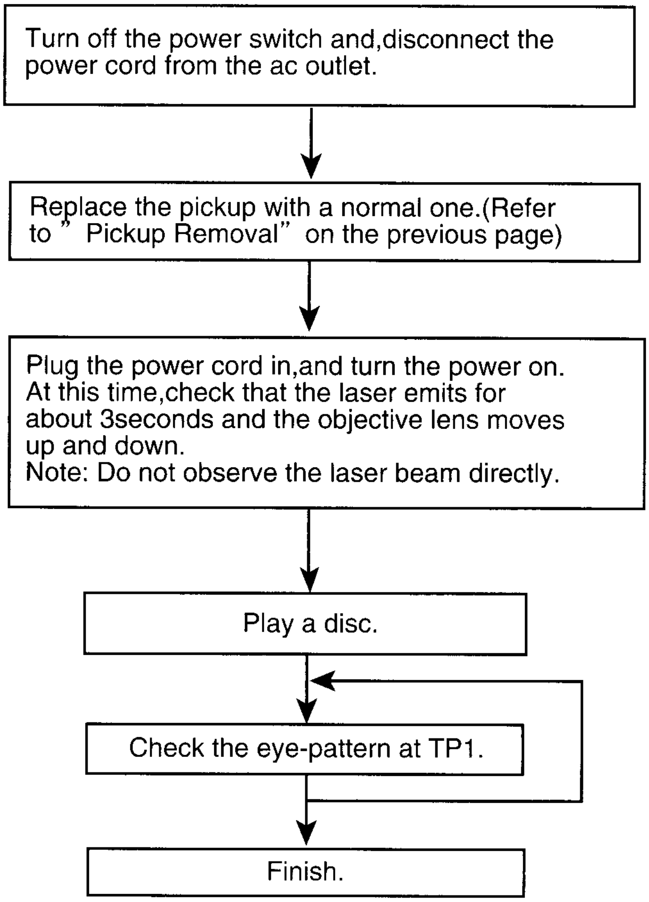
Maintenance of laser pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.
(1) The level of RF output (EFM output:ampli tude of eye pattern) will below.


Is RF output 1.1±0.15Vp-p?
NO
Replace it.
YES
O.K

Replacement of laser pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to " Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down. Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

(3) Semi-fixed resistor on the APC PC board The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value,the laser diode is almost worn out, and the laser pickup should be replaced.
If the semi-fixed resistor is adjusted while the pickup is functioning normally,the laser pickup may be damaged due to excessive current.

Adjustment method

Measurement Instruments Required for Adjustment

1. Low frequency oscillator,
   This oscillator should have a capacity to output 0dBs to 600Ω at an oscillation frequency of 50Hz-20kHz.
2. Attenuator impedance : 600Ω
3. Electronic voltmeter
4. Frequency counter
5. Wow flutter meter
6. Test tape
   VTT712 : For Tape speed and wow flutter (3kHz)
   VTT724 : For Reference level (1kHz)
   TMT7036 : For Head angle(10kHz),Play back frequency characteristics(1kHz),and dubbing frequency characteristics(63,1,10kHz)
   Because of frequency-mixed tape with 63,1k,10k and 14kHz(250nWb/m -24dB).
   Use this tape together with a filter.
7. Blank tape
   TAPE Ⅰ: AC-225, TAPE Ⅱ: AC-514
8. Torque gauge : For play and back tension
   Forward ; TW2111A, Reverse ; TW2121A
   Fast Forward and Rewind ; TW2231A
9. Test disc
   : CTS-1000(12cm),GRG-1211(8cm)
   GMT-9900(CD-G),MMCD-VCD01(VIDEO-CD)
10. Jitter meter

Measurement Conditions

Power supply voltage
AC110/127/220/230-240V(50Hz) : Ver.U,US,UX,UT,UY
AC220V(60Hz) : Ver.UP
AC120V(60Hz) : Ver.J,C
AC240V(50Hz) : Ver.A
AC230V(50Hz) : Ver.B,E,EN,EE,EV

Measurement
output terminal : Speaker out
:TP101(Mesuring for TUNER/DECK/CD)
:Dummy load 6Ω

Radio input signal

AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 400Hz
Frequency displacement : 22.5kHz

Frequency Range

MW	530kHz~1710kHz	J,C
	531kHz~1710kHz	except J,C,A,B,E,EN,EV,EE,UX
	530kHz~1602kHz	only UX
	522kHz~1629kHz	A,B,E,EN,EV,EE
LW	144kHz~288kHz	only MX-J75R
FM	65MHz~74MHz /	
	87.5MHz~108MHz	only EE
	87.5MHz~108MHz	except EE

Standard measurement positions of volume and switch

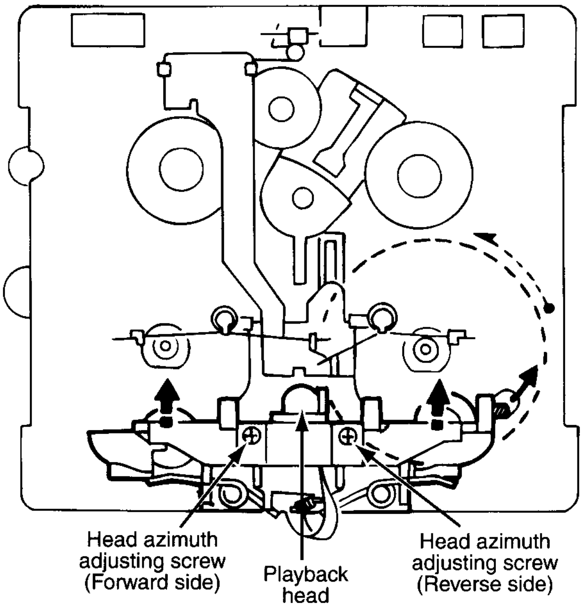
Power : Standby (Light STANDBY Indicator)
SA-Bass : OFF
Sound mode : OFF
Main VOL. : 0 Minimum
Travers mecha set position : Disc 1
Mic MIX VOL : MAX
KARAOKE/ECHO : OFF (only U type)

Precautions for Measurement

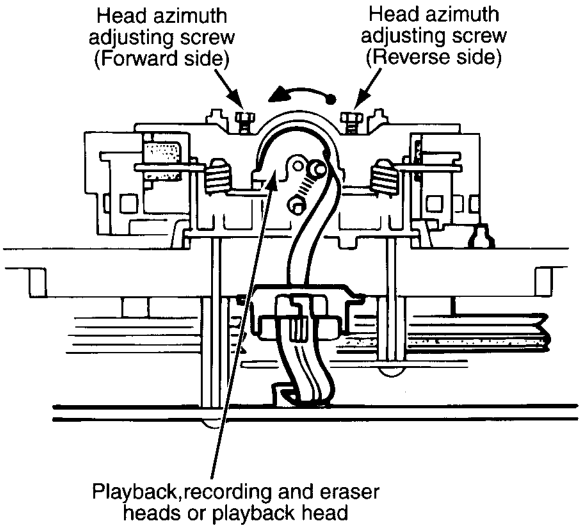
1. Apply 30pF and 33kΩ to the IF sweeper output side and 0.082 μF and 100kΩ in series to the sweeper input side.
2. The IF sweeper output level should be made as low as possible within the adjustable range.
3. Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
4. Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
5. Since a fixed coil is used, there is no need to adjust the FM tracking.
6. The input and output earth systems are separated. In case of simultaneously measuring the voltage in both of the input and output systems with an electronic voltmeter for two channels, therefore, the earth should be connected particularly.
7. In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

■ Arrangement of Adjusting Positions

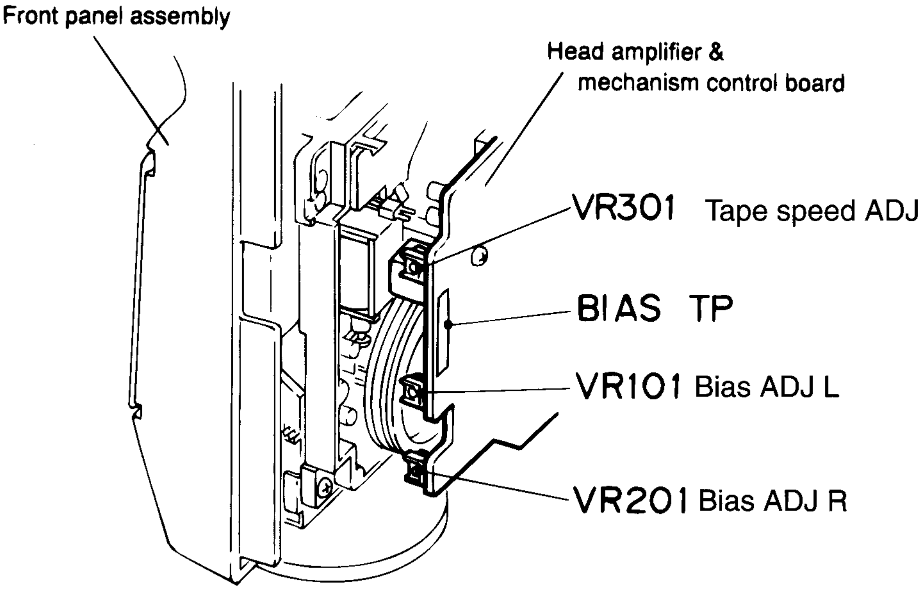
Cassette mechanism section (Mechanism A section)


Head azimuth adjusting screw (Forward side)
Playback head
Head azimuth adjusting screw (Reverse side)

Cassette mechanism section (Back side)


Head azimuth adjusting screw (Forward side)
Head azimuth adjusting screw (Reverse side)
Playback,recording and eraser heads or playback head

Cassette Mechanism Unit Section


Front panel assembly
Head amplifier & mechanism control board
VR301 Tape speed ADJ
BIAS TP
VR101 Bias ADJ L
VR201 Bias ADJ R

■ Tape Recorder Section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Confirmation of head angle	Test tape :TMT7036(10kHz) Measurement output terminal :Speaker terminal Speaker R (Load resistor:3Ω) :Headphone terminal	1.Playback the test tape TMT7036(10kHz). 2.With the playback mechanism or recording & playback mechanism, adjust the head azimuth screw so that the forward and reverse output levels become maximum.After adjustment,lock the head azimuth at least by half a turn. 3.In either case,this adjustment should be performed in both the forward and reverse directions with the head azimuth screw.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Confirmation of tape speed	Test tape :VTT712(3kHz) or TMT7036(3kHz) Measurement output terminal :Headphone terminal	<Constant speed> Adjust VR301 so that the frequency counter reading becomes 3,000Hz±60Hz when playing back the test tape VTT712(3kHz)with the playback mechanism or playback and recording mechanism after ending forward winding of the tape.	Tape speed of decks (A and B) :3,000Hz ±60Hz	VR301

■ Reference Values for Confirmation items

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Double tape speed	Test tape :TMT7036(10kHz) Measurement output terminal :Speaker terminal Speaker R (Load resistance:3Ω) measurement output terminal :Headphone terminal	After setting to the double speed motor, confirm that the frequency counter reading becomes 4,800+400/-300Hz when the test tape VTT712 (3kHz) has been play back with the playback mechanism.	4,800+400/ -300Hz	Playback mechanism side
Difference between the forward and reverse speed. P.mecha and R/P mecha speed		When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding, the frequency counter reading of the difference between both of the mechanisms should be 6.0Hz or less.	60Hz or less	Both the playback and recording & playback mechanism
Wow & flutter	Test tape :TMT7036(10kHz) Measurement output terminal :Headphone terminal	When the test tape VTT712(3kHz) has been played back with the playback mechanism or recording and playback mechanism at the beginning of forward winding the frequency counter reading of wow & flutter should be 0.25% or less(WRMS).	with in 0.25% JIS(WTD)	Both the playback and recording & playback mechanism

■ Electrical Performance

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Adjustment of recording bias current (Reference value)	*Mode : Forward or reverse mode *Recording mode *Test tape :AC-514 and AC-225 Measurement output terminal :Both recording and headphone terminals	1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing conditions in advance. 2.After connecting 100Ω in series to the recorder head,measure the bias current with a valve voltmeter at both of the terminals. 3.After resetting the [PAUSE] mode,start recording. At this time,adjust VR101 for LcH and VR201 for RcH so that the recording bias current values become 4.0μA (TYP Ⅰ) and 4.20μA(TYP Ⅱ).	AC-225 :4.20μA AC-514 :4.0μA	LcH :VR101 RcH :VR201
Adjustment of recording and playback frequency characteristics	Reference frequency :1kHz and 10kHz (REF:-20dB) Test tape :TYP Ⅱ AC-514 Measurement input terminal :OSC IN	1.With the recording and playback mechanism,load the test tape(AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing condition in advance. 2.While repetitively inputting the reference frequency signal of 1kHz and 10kHz from OSC IN, record and playback the test tape. 3.While recording and playing back the test tape in TYP Ⅱ,adjust VR101 for LcH and VR201 for RcH so that the output deviation between 1kHz and 10kHz becomes -1dB±2dB.	Output deviation between 1kHz and 10kH :-1dB±2dB	LcH :VR101 RcH :VR201

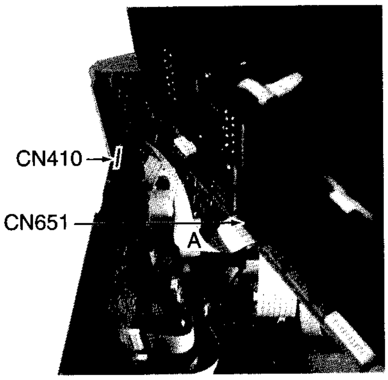
■ Reference Values for Electrical Function Confirmation Items

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Recording bias frequency	*Recording and playback side forward or reverse *Test tape :TYP Ⅱ AC-514 *Measurement terminal BIAS TP on P.C.board	1.While changing over to and from BIAS 1 and 2, confirm that the frequency is changed. 2.With the recording and playback mechanism. load the test tape (AC-514 to TYP Ⅱ),and set the mechanism to the recording and pausing conditions in advance. 3.Confirm that the BIAS TP frequency on the P.C.board is 100kHz±6kHz.	100kHz +9kHz -7kHz	
Eraser current (Reference value)	*Recording and playback side forward or reverse *Recording mode *Test tape :AC-514 and AC-225 Measurement terminal Both of the eraser head	1.With the recording and playback mechanism, load the test tapes(AC-514 to TYP Ⅱ and AC-225 to TYP Ⅰ),and set the mechanism to the recording and pausing condition in advance. 2.After setting to the recording conditions,connect 1MΩ in series to the eraser head on the recording and playback mechanism side,and measure the eraser current from both of the eraser terminal.	TYP Ⅱ :120mA TYP Ⅰ :75mA	

Diagnosis which uses extension wire method

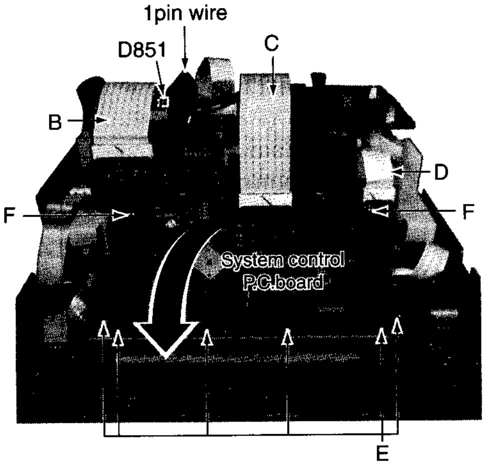
CD Changer mechanism

1.Remove the top cover and CD changer mechanism.
2.The extension wire "A" is connected with CN651 and CN410.


CN410
CN651
A

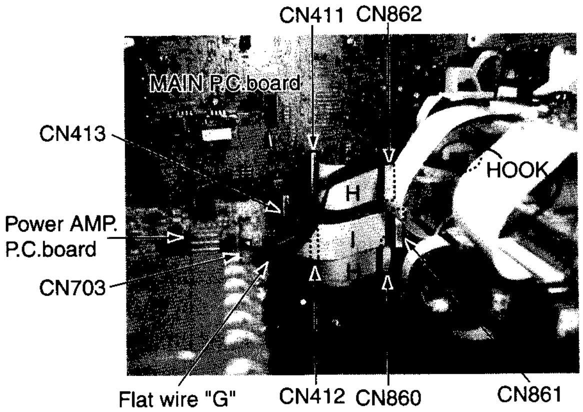
System control P.C.board

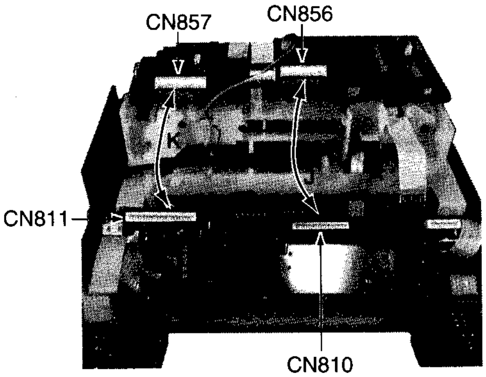
1.Remove the top cover and CD changer mechanism.
2.Remove the front panel assembly.
3.Disconnect the card wire "B","C","D".
4.The 1pin wire is removed from D851
5.Six screws "E" are removed, and the bracket is removed.
6.Two screws "F" on the system control P.C.board are removed, and the system control P.C.board is knocked down forward.
7.The flat wire "G" is connected with CN703 on the Power AMP.P.C.board while remove flat wire "G" from the hook, and extended.
8.Two extension wires "H" are connected with CN860, CN412, and CN862, CN411 respectively.
9.The extension wire "I" is connected with CN861 and CN413.
10.The extension wire "J" is connected with CN856 and CN810.
11.The extension wire "K" is connected with CN857 and CN811.
12.The extension wire "L" is connected with CN306 and CN812.

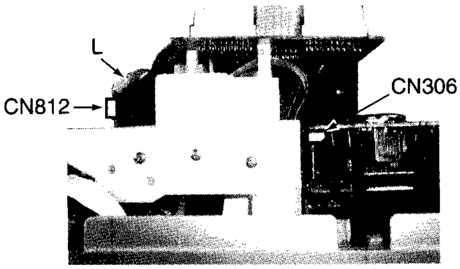

1pin wire
D851
C
B
D
F
F
System control P.C.board
E

Extension wire parts No.

A : VWF1019-45TTA
H : QUQ412-2140CJ
I : QUQ412-1738CJ
J : QUQ412-2120CJ
K : VWF1223-30TTB
L : VWF1211-28TTB

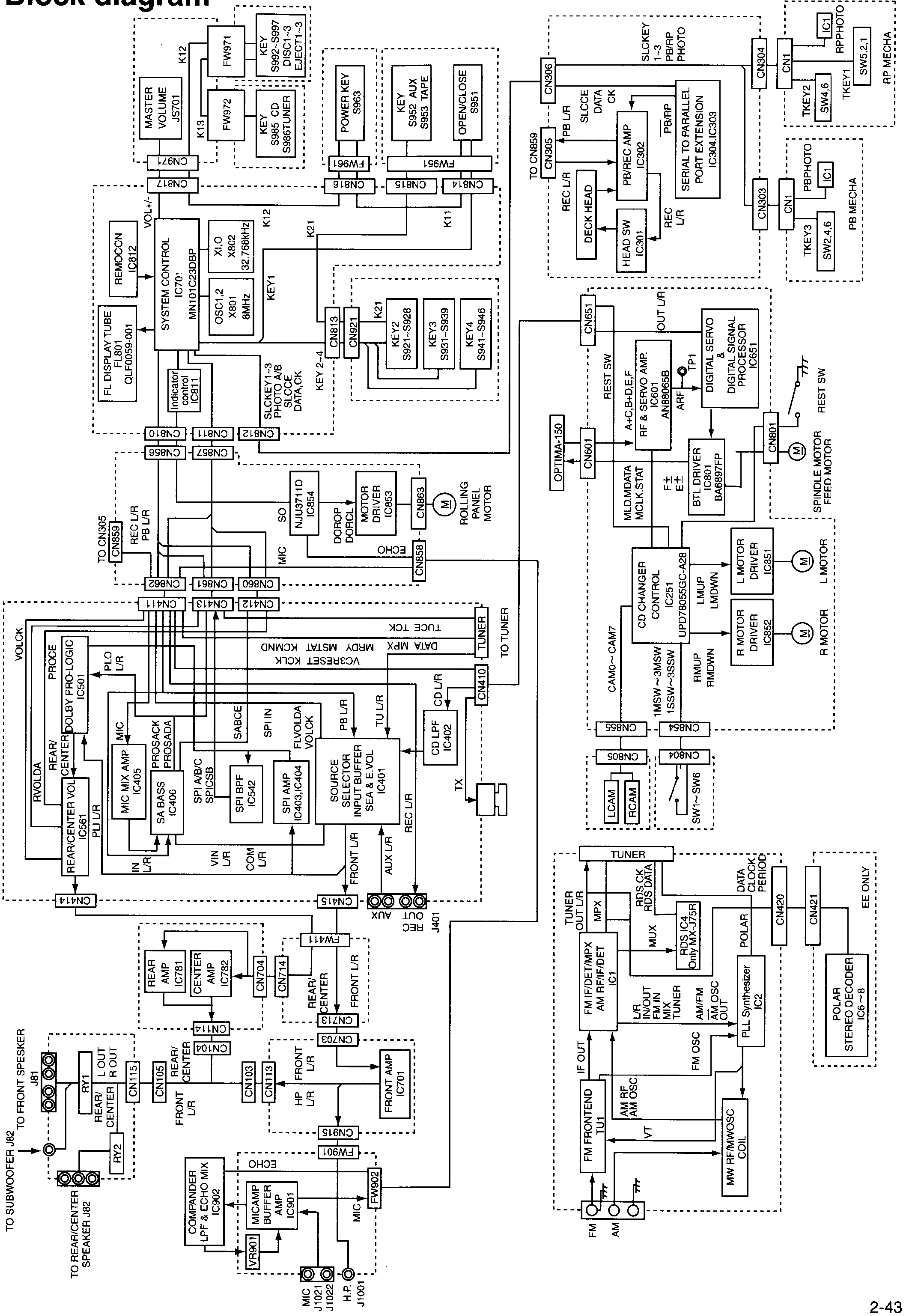

CN411
CN862
MAIN P.C.board
CN413
HOOK
H
Power AMP. P.C.board
CN703
Flat wire "G"
CN412
CN860
CN861


CN857
CN856
K
J
CN811
CN810


L
CN812
CN306

Right side

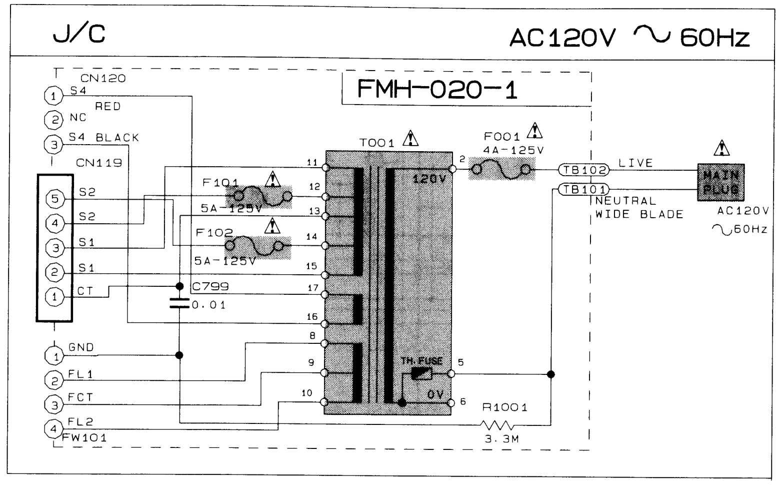
Block diagram


MASTER VOLUME JS701
FW971
KEY S992~S997 DISC1~3 EJECT1~3
FW972
KEY S985 CD S986TUNER
K12
K13
CN971
POWER KEY S963
FW961
KEY S952 AUX S953 TAPE
OPEN/CLOSE S951
FW951
CN817
CN816
CN815
CN814
VOL+/-
REMOCON IC812
SYSTEM CONTROL IC701 MN101C23DBP
XI,O X802 32.768kHz
OSC1,2 X801 8MHz
FL DISPLAY TUBE FL801 QLF0059-001
Indicator control IC811
K12
K21
K11
KEY1
CN813
CN921
K21
KEY2 S921~S928
KEY3 S931~S939
KEY4 S941~S946
KEY 2~4
SLCKEY1~3 PHOTO A/B SLCCE DATA,CK
CN810
CN811
CN812
CN856
CN857
TO CN305
CN859
REC L/R PB L/R
SO
NJU3711D IC854
DOROP DORCL
MOTOR DRIVER IC853
CN863
M
ROLLING PANEL MOTOR
MIC
ECHO
CN858
CN862
CN861
CN860
CN411
CN413
CN412
TUNER
TO TUNER
TUCE TCK
DATA MPX MRDY MSTAT KCMND
VCGRESET KCLK
CN410
VOLCK
PROCE
DOLBY PRO-LOGIC IC501
PLO L/R
REAR/ CENTER
RVOLDA
MIC
PROSACK PROSADA
SABCE
SPI IN
FLVOLDA VOLCK
PB L/R
TU L/R
CD L/R
CD LPF IC402
TX
REAR/CENTER VOL IC561
PLI L/R
MIC MIX AMP IC405
SA BASS IC406
SPI A/B/C SPICSB
SPI BPF IC542
SPI AMP IC403,IC404
SOURCE SELECTOR INPUT BUFFER SEA & E.VOL IC401
REC L/R
IN L/R
VIN L/R
COM L/R
FRONT L/R
AUX L/R
CN414
CN415
AUX
OUT REC
J401
FW411
REAR AMP IC781
CENTER AMP IC782
CN704
CN714
REAR/ CENTER
FRONT L/R
CN713
CN114
CN104
CN703
TO FRONT SPESKER J81
RY1
L OUT R OUT
CN115
CN105
REAR/ CENTER
CN103
CN113
FRONT L/R
FRONT AMP IC701
REAR/ CENTER
FRONT L/R
HP L/R
TO SUBWOOFER J82
RY2
TO REAR/CENTER SPEAKER J82
CN915
FW901
ECHO
COMPANDER LPF & ECHO MIX IC902
MICAMP BUFFER AMP IC901
FW902
MIC
VR901
MIC J1021 J1022
H.P. J1001
SLCKEY 1~3 PB/RP PHOTO
CN306
CN304
CN1
IC1
RPPHOTO
SW5,2,1
TKEY1
TKEY2
SW4,6
RP MECHA
SLCCE DATA CK
SERIAL TO PARALLEL PORT EXTENSION IC304,IC303
PB/RP
PB L/R
TO CN859
CN305
PB/REC AMP IC302
REC L/R
DECK HEAD
HEAD SW IC301
REC L/R
CN303
CN1
PBPHOTO
IC1
TKEY3
SW2,4,6
PB MECHA
CN651
OUT L/R
REST SW
A+C,B+D,E,F
RF & SERVO AMP. IC601 AN8806SB
TP1
ARF
DIGITAL SERVO & DIGITAL SIGNAL PROCESSOR IC651
OPTIMA-150
CN601
F± E±
BTL DRIVER IC801 BA6897FP
CN801
REST SW
M
SPINDLE MOTOR FEED MOTOR
MLD,MDATA MCLK,STAT
CD CHANGER CONTROL IC251 UPD78055GC-A28
LMUP LMDWN
L MOTOR DRIVER IC851
M
L MOTOR
R MOTOR DRIVER IC852
M
R MOTOR
CAM0~CAM7
1MSW~3MSW 1SSW~3SSW
RMUP RMDWN
CN855
CN854
CN805
CN804
LCAM
RCAM
SW1~SW6
TUNER
TUNER OUT L/R
MPX
RDS CK RDS DATA
DATA CLOCK PERIOD
CN420
CN421
EE ONLY
MUX
RDS IC4 Only MX-J75R
POLAR
FM IF/DET/MPX AM RF/IF/DET IC1
L/R IN/OUT FM IN MIX TUNER
AM/FM AM OSC OUT
PLL Synthesizer IC2
POLAR STEREO DECODER IC6~8
IF OUT
FM OSC
FM FRONTEND TU1
AM RF AM OSC
VT
MW RF/MWOSC COIL
FM
AM

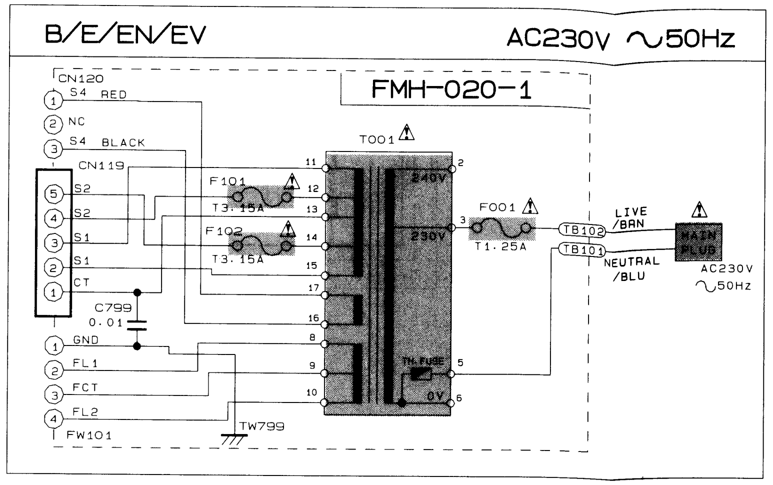
Standard Schematic Diagrams

■ Power Transformer Section

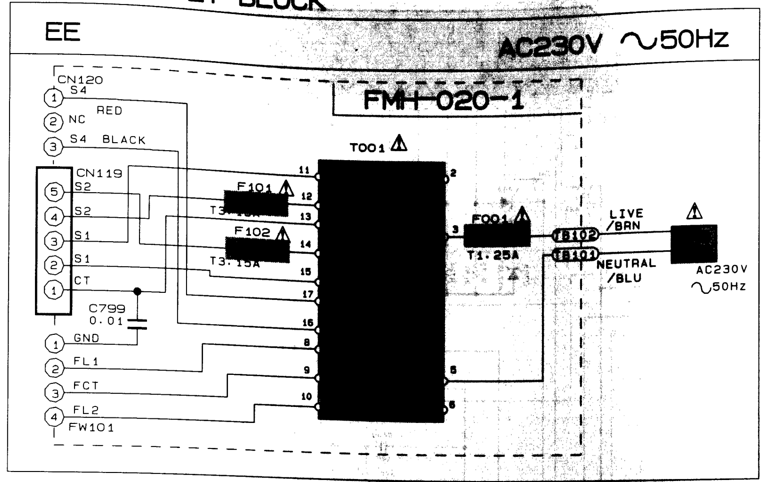
POWER SUPPLY BLOCK


J/C
AC120V ∿ 60Hz
FMH-020-1
CN120
S4
RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F001
4A-125V
F101
5A-125V
F102
5A-125V
C799
0.01
GND
FL1
FCT
FL2
FW101
120V
TH-FUSE
0V
R1001
3.3M
TB102
TB101
LIVE
NEUTRAL
WIDE BLADE
MAIN PLUG
AC120V
∿60Hz

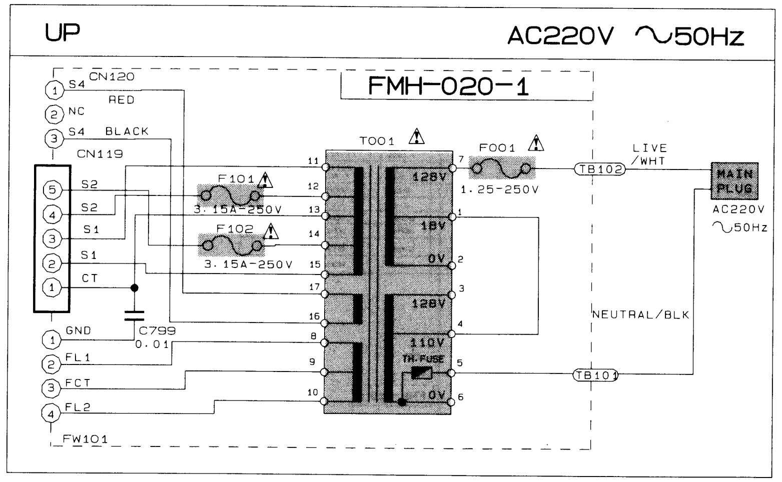
POWER SUPPLY BLOCK


B/E/EN/EV
AC230V ∿50Hz
FMH-020-1
CN120
S4 RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F101
T3.15A
F102
T3.15A
F001
T1.25A
240V
230V
TH-FUSE
0V
C799
0.01
GND
FL1
FCT
FL2
FW101
TW799
TB102
TB101
LIVE
/BRN
NEUTRAL
/BLU
MAIN PLUG
AC230V
∿50Hz

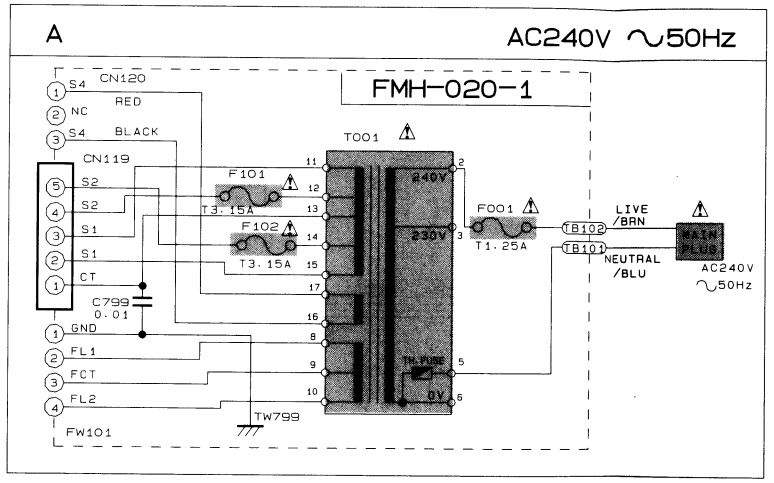
POWER SUPPLY BLOCK


EE
AC230V ∿50Hz
FMH-020-1
CN120
S4
RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F101
F102
F001
T1.25A
C799
0.01
GND
FL1
FCT
FL2
FW101
TB102
TB101
LIVE
/BRN
NEUTRAL
/BLU
AC230V
∿50Hz

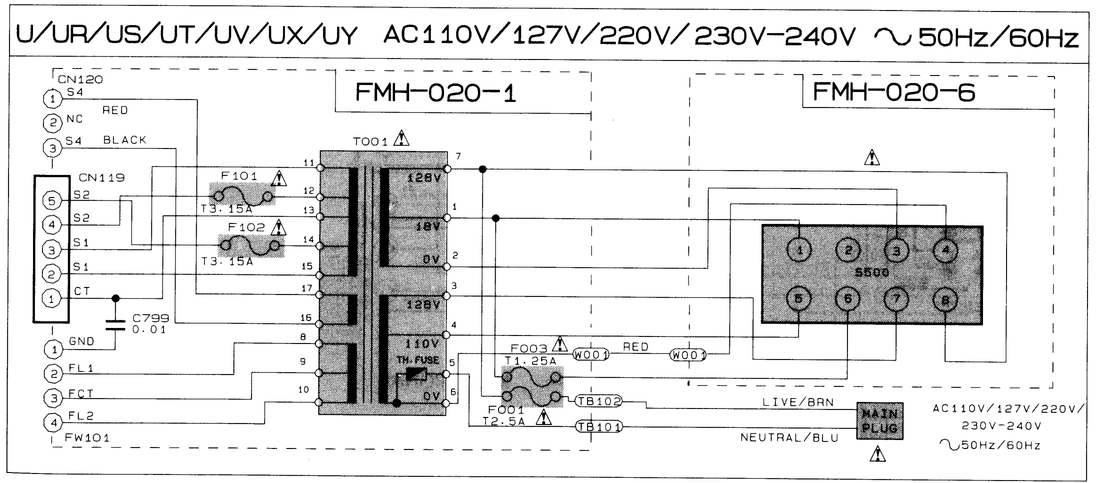
POWER SUPPLY BLOCK


UP
AC220V ∿50Hz
FMH-020-1
CN120
S4
RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F001
1.25-250V
F101
3.15A-250V
F102
3.15A-250V
128V
18V
0V
128V
110V
TH-FUSE
0V
C799
0.01
GND
FL1
FCT
FL2
FW101
TB102
TB101
LIVE
/WHT
NEUTRAL/BLK
MAIN PLUG
AC220V
∿50Hz

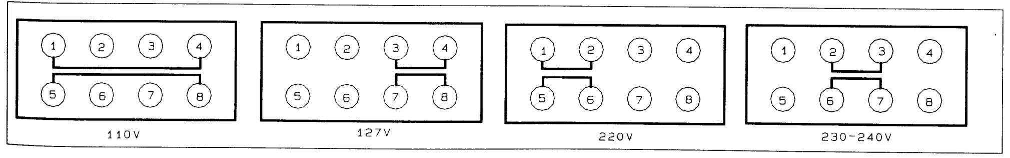
POWER SUPPLY BLOCK


A
AC240V ∿50Hz
FMH-020-1
CN120
S4
RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F101
T3.15A
F102
T3.15A
F001
T1.25A
240V
230V
TH-FUSE
0V
C799
0.01
GND
FL1
FCT
FL2
FW101
TW799
TB102
TB101
LIVE
/BRN
NEUTRAL
/BLU
MAIN PLUG
AC240V
∿50Hz

POWER SUPPLY BLOCK


U/UR/US/UT/UV/UX/UY AC110V/127V/220V/230V-240V ∿50Hz/60Hz
FMH-020-1
FMH-020-6
CN120
S4
RED
NC
S4 BLACK
CN119
S2
S2
S1
S1
CT
T001
F101
T3.15A
F102
T3.15A
128V
18V
0V
128V
110V
TH-FUSE
0V
C799
0.01
GND
FL1
FCT
FL2
FW101
S500
F003
T1.25A
F001
T2.5A
W001
W001
RED
TB102
TB101
LIVE/BRN
NEUTRAL/BLU
MAIN PLUG
AC110V/127V/220V/
230V-240V
∿50Hz/60Hz

VOLTAGE SELECTOR LOCATION


110V
127V
220V
230-240V

▨ ⚠ Parts are safety assurance parts.
When replacing those parts make
sure to use the specified one.

SHEET NUMBER	MODEL NUMBERS TO BE APPLIED	CIRCUITS DESCRIPTION
1/11	CA-MXJ70/CA-MXJ75R MX-J70/MX-J75R/MX-J76	.PRIMARY WITH MAINS TRANSFORMER
2/11	CA-MXJ70/CA-MX-J75R MX-J70/MX-J75R/MX-J76	.DC REGULATORS/AUDIO OUTPUT
3/11	CA-MXJ70/CA-MX-J75R MX-J70/MX-J75R/MX-J76	.EXTERNAL INPUT, SOURCE SELECTOR SWITCH
4/11	CA-MXJ70/MX-J70	.TUNER RF/IF/FM MULTIPLEX (ONLY FOR J, C, U, UP, US, UR, UT, UX, UY)
5/11	CA-MXJ75R	.TUNER RF/IF/FM MULTIPLEX (ONLY FOR B, E, EN, EV)
6/11	MX-J75R	.TUNER RF/IF/FM MULTIPLEX (ONLY FOR EE)
7/11	MX-J75R	.POLAR STEREO MULTIPLEX (ONLY FOR EE)
8/11	CA-MXJ70/CA-MX-J75R MX-J70/MX-J75R/MX-J76	.FL DISPLAY, SYSTEM CONTROL LSI, USER CONTROL KEYS
9/11	CA-MXJ70	.MIC AMP, ECHO CIRCUIT (ONLY FOR U, UP, US, UR, UT, UV, UX, UY)
10/11	CA-MXJ70/CA-MX-J75R MX-J70/MX-J75R/MX-J76	.TAPE DECK MECHANISM CONTROL .TAPE CIRCUITS SUCH AS PRE-AMP AND BIAS
11/11	CA-MXJ70/CA-MX-J75R MX-J70/MX-J75R/MX-J76	.CD SERVO AND CD SYSTEM CONTROL .CD CHANGER MECHANISM CONTROL

NOTES: MARK [*] IS TO SHOW DEVIATION IN VERSIONS.
DETAILS ARE EXPLAINED NEAR THE MARK.

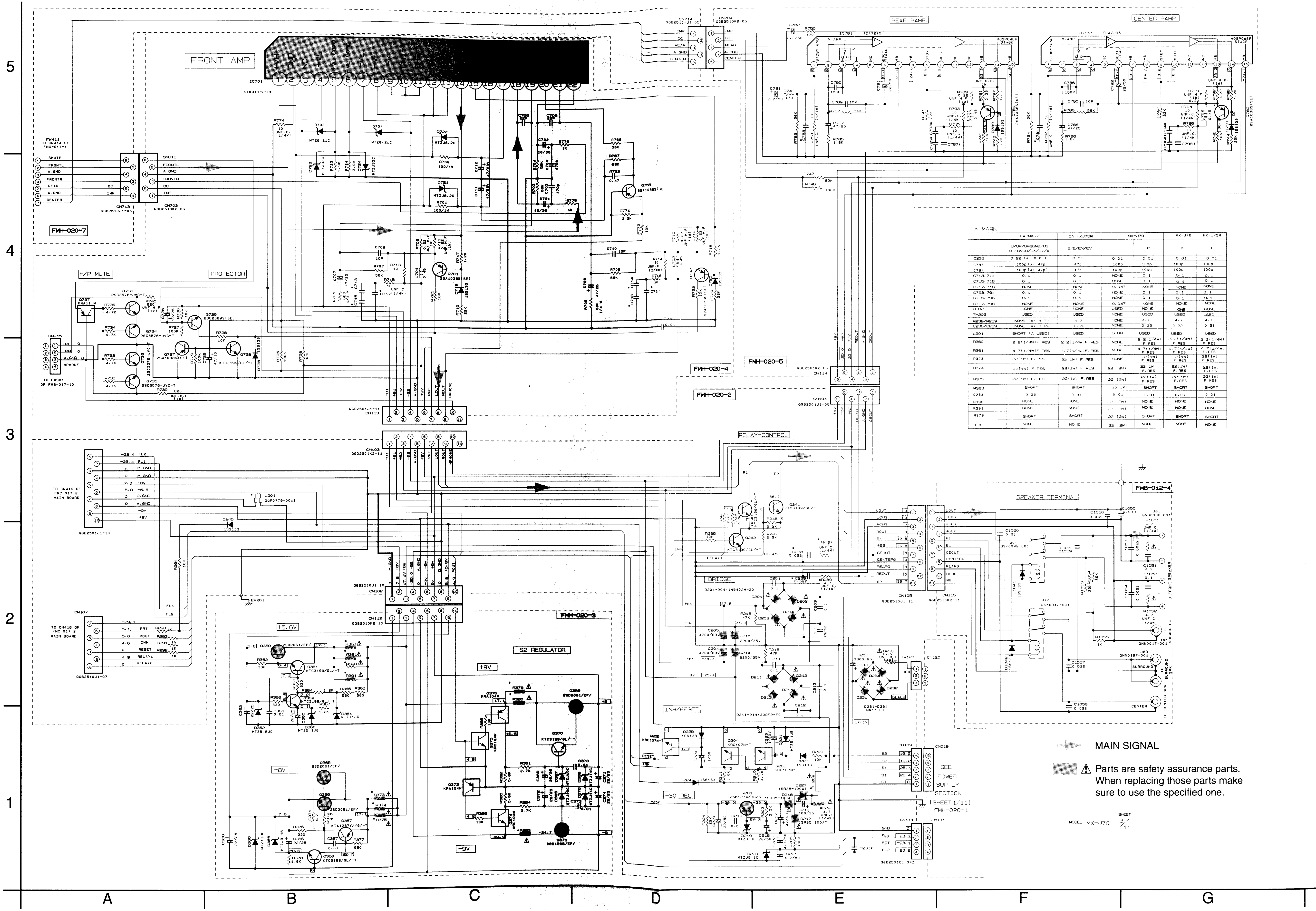
VERSION CODES

J	U.S.A.
C	CANADA
B	U.K.
E	CONTINENTAL EUROPE
EE	RUSSIA
EN	NORDIC COUNTRIES
EV	EASTERN EUROPE
A	AUSTRALIA
U	UNIVERSIAL EXCEPT ALL OF ABOVES
UP	KOREA
UR	BRAZIL
US	SINGAPORE
UT	TAIWAN
UV	VIETNAM
UX	SAUDI ARABIA
UY	ARGENTINA

MODEL CA-MXJ70/CA-MXJ75R
MX-J70/MX-J75R/MX-J76

SHEET 1/11

■ Power Amplifier & Regulator Section


FRONT AMP
IC701 STK411-210E
+VH
GND
NC
+VL
+VL Comp
-VL Comp
-VL
-VH
CH1
CH2
REAR PAMP.
IC781 TDA7295
CENTER PAMP.
IC782 TDA7295
MOSPOWER STAGE
V.AMP
CN714 QGB2510J1-05
CN704 QGB2510K2-05
FW411 TO CN414 OF FMC-017-1
SMUTE
FRONTL
A.GND
FRONTR
REAR
CENTER
DC
IMP
CN713 QGB2510J1-06
CN703 QGB2510K2-06
FMH-020-7
H/P MUTE
PROTECTOR
CN915
HPL
HPR
A.GND
HPHONE
TO FW901 OF FMB-017-10
FMH-020-4
FMH-020-5
CN113 QGD2501J1-11
CN103 QGD2501K2-11
TO CN416 OF FMC-017-2 MAIN BOARD
L201 QQR0779-001Z
D245 1SS133
CN102 QGB2510J1-10
CN112 QGB2510K2-10
CN107
EP201
FMH-020-3
+5.6V
+9V
+8V
-9V
S2 REGULATOR
CN114 QGB2510K2-06
CN104 QGB2510J1-06
FMH-020-2
RELAY-CONTROL
BRIDGE
D201-204 1N5402M-20
D211-214 30DF2-FC
D231-D234 AN1Z-F1
INH/RESET
-30 REG
CN105 QGB2510J1-11
CN115 QGB2510K2-11
CN109
CN019
SEE POWER SUPPLY SECTION [SHEET1/11] FMH-020-1
CN111
FW101
QGD2501C1-04Z
FMB-012-4
SPEAKER TERMINAL
RY1 QSK0042-001
RY2 QSK0042-001
TO FRONT SPEAKER
TO SUBWOOFER
TO SURROUND SPK
TO CENTER SPK
SURROUND
CENTER
A
B
C
D
E
F
G
1
2
3
4
5

* MARK

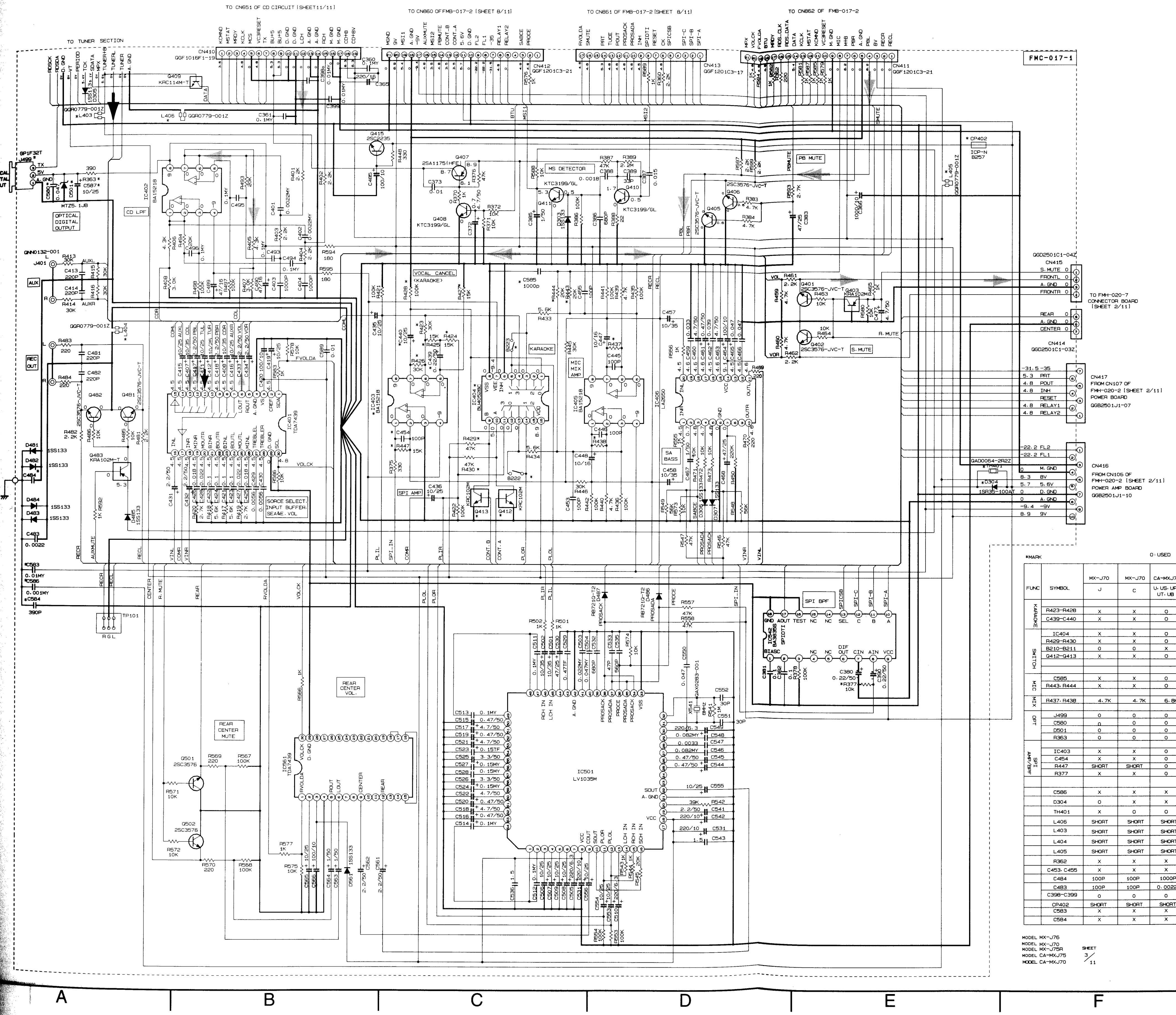
	CA-MXJ70	CA-MXJ75R	MX-J70		MX-J76	MX-J75R
	U/UP/URSDMB/US UT/UVCD/UX/UY/A	B/E/EN/EV	J	C	C	EE
C233	0.22 (A: 0.01)	0.01	0.01	0.01	0.01	0.01
C783	100p (A: 47p)	47p	100p	100p	100p	100p
C784	100p (A: 47p)	47p	100p	100p	100p	100p
C713, 714	0.1	0.1	NONE	0.1	0.1	0.1
C715, 716	0.1	0.1	NONE	0.1	0.1	0.1
C717, 718	NONE	NONE	0.047	NONE	NONE	NONE
C793, 794	0.1	0.1	NONE	0.1	0.1	0.1
C795, 796	0.1	0.1	NONE	0.1	0.1	0.1
C797, 798	NONE	NONE	0.047	NONE	NONE	NONE
R202	NONE	NONE	USED	NONE	NONE	NONE
TH202	USED	USED	NONE	USED	USED	USED
R238/R239	NONE (A: 4.7)	4.7	NONE	4.7	4.7	4.7
C238/C239	NONE (A: 0.22)	0.22	NONE	0.22	0.22	0.22
L201	SHORT (A:USED)	USED	SHORT	USED	USED	USED
R360	2.2(1/4W)F.RES	2.2(1/4W)F.RES	NONE	2.2(1/4W) F.RES	2.2(1/4W) F.RES	2.2(1/4W) F.RES
R361	4.7(1/4W)F.RES	4.7(1/4W)F.RES	NONE	4.7(1/4W) F.RES	4.7(1/4W) F.RES	4.7(1/4W) F.RES
R373	22(1W) F.RES	22(1W) F.RES	NONE	22(1W) F.RES	22(1W) F.RES	22(1W) F.RES
R374	22(1W) F.RES	22(1W) F.RES	22 (2W)	22(1W) F.RES	22(1W) F.RES	22(1W) F.RES
R375	22(1W) F.RES	22(1W) F.RES	22 (2W)	22(1W) F.RES	22(1W) F.RES	22(1W) F.RES
R383	SHORT	SHORT	15(1W)	SHORT	SHORT	SHORT
C233	0.22	0.01	0.01	0.01	0.01	0.01
R390	NONE	NONE	22 (2W)	NONE	NONE	NONE
R391	NONE	NONE	22 (2W)	NONE	NONE	NONE
R379	SHORT	SHORT	22 (2W)	SHORT	SHORT	SHORT
R380	NONE	NONE	22 (2W)	NONE	NONE	NONE

➡ MAIN SIGNAL

▨ ⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

MODEL MX-J70 SHEET 2/11

Function & Main Amplifier Section


TO TUNER SECTION
TO CN651 OF CD CIRCUIT (SHEET11/11)
TO CN860 OF FMB-017-2 (SHEET 8/11)
TO CN861 OF FMB-017-2 (SHEET 8/11)
TO CN862 OF FMB-017-2
FMC-017-1
CN410 QGF1016F1-19
CN412 QGF1201C3-21
CN413 QGF1201C3-17
CN411 QGF1201C3-21
OPTICAL DIGITAL OUTPUT
CD LPF
MS DETECTOR
PB MUTE
VOCAL CANCEL (KARAOKE)
KARAOKE
MIC MIX AMP
SA BASS
SPI AMP
SPI BPF
SORCE SELECT INPUT BUFFER SEA&E. VOL
REAR CENTER MUTE
REAR CENTER VOL.
IC401 TDA7439
IC402 BA15218
IC403 BA15218
IC404 BU4052BC
IC405 BA15218
IC406 LA2650
IC501 LV1035M
IC561 TDA7439
IC542 BA3835S
CN415 QGD2501C1-04Z
TO FMH-020-7 CONNECTOR BOARD (SHEET 2/11)
CN414 QGD2501C1-03Z
CN417 FROM CN107 OF FMH-020-2 (SHEET 2/11) POWER BOARD QGB2501J1-07
CN416 FROM CN105 OF FMH-020-2 (SHEET 2/11) POWER AMP BOARD QGB2501J1-10
AUX
REC OUT
TP101
A
B
C
D
E
F
G

▶ CD/MAIN SIGNAL

➡ TUNER SIGNAL

▶ TAPE P.B. SIGNAL

*MARK

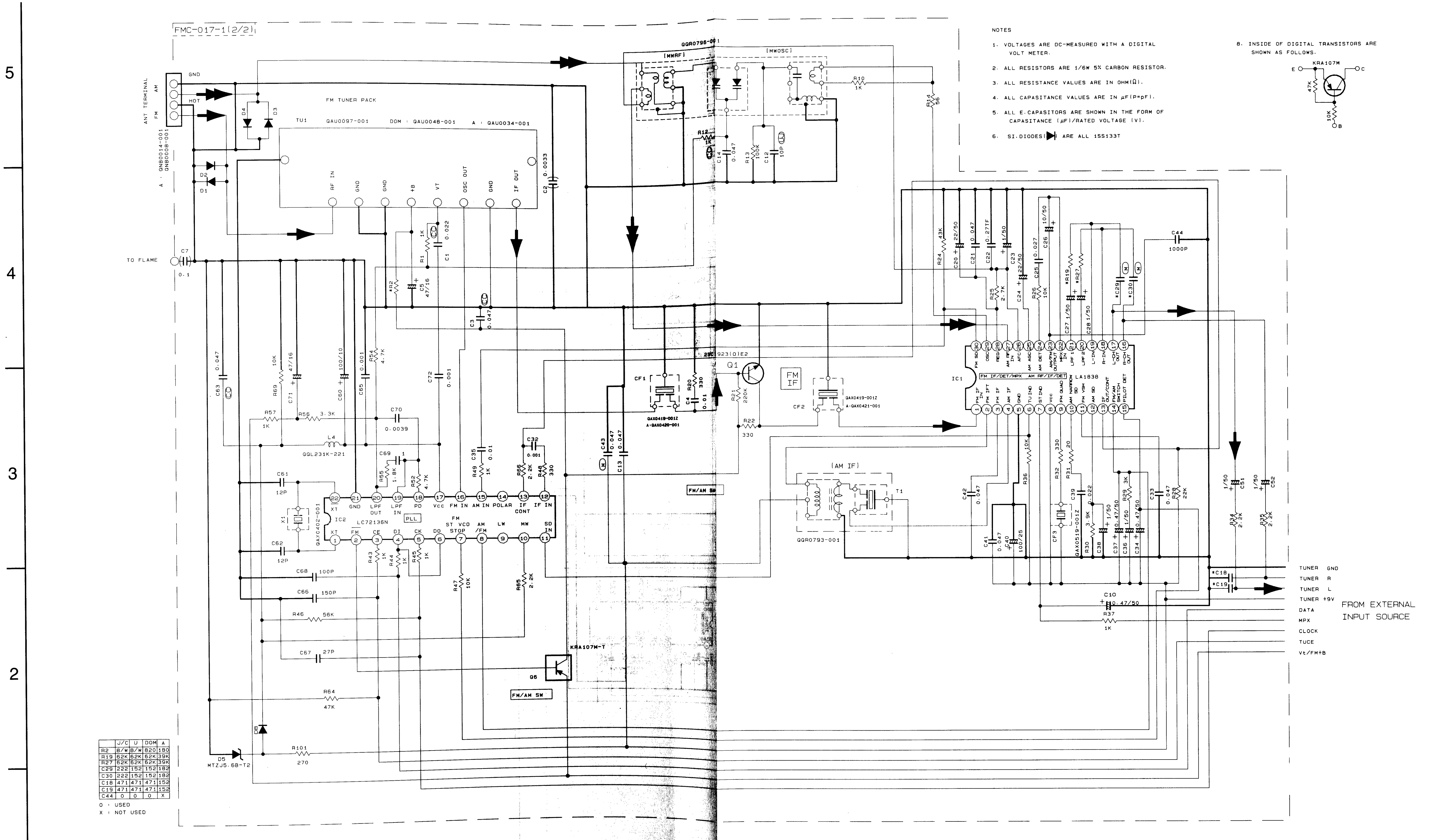
O: USED X: NONE

FUNC	SYMBOL	MX-J70 J	MX-J70 C	CA-MXJ70 U. US. UP UT. UB	CA-MXJ70 A	CA-MXJ75R B. E. EN. EV	MX-J75R EE	MX-J76 C
KARAOKE								
	R423-R428	X	X	O	X	X	X	X
	C439-C440	X	X	O	X	X	X	X
SWITCH	IC404	X	X	O	X	X	X	X
	R429-R430	X	X	O	X	X	X	X
	B210-B211	O	O	X	O	O	O	O
	Q412-Q413	X	X	O	X	X	X	X
MIC	C585	X	X	O	X	X	X	X
	R443, R444	X	X	O	X	X	X	X
MIX	R437, R438	4.7K	4.7K	6.8K	4.7K	4.7K	4.7K	4.7K
OPT	J499	O	O	O	O	O	O	X
	C580	O	O	O	O	O	O	X
	D501	O	O	O	O	O	O	X
	R363	O	O	O	O	O	O	X
SPI AMP/BPF								
	IC403	X	X	O	X	X	X	X
	C454	X	X	O	X	X	X	X
	R447	SHORT	SHORT	O	SHORT	SHORT	SHORT	SHORT
	R377	X	X	O	X	X	X	X
	C586	X	X	X	O	O	X	X
	D304	O	X	X	X	X	X	X
	TH401	X	O	O	O	O	O	O
	L406	SHORT	SHORT	SHORT	O	O	SHORT	SHORT
	L403	SHORT	SHORT	SHORT	O	O	SHORT	SHORT
	L404	SHORT	SHORT	SHORT	O	O	SHORT	SHORT
	L405	SHORT	SHORT	SHORT	O	O	SHORT	SHORT
	R362	X	X	X	O	O	O	X
	C453, C455	X	X	X	O	O	X	X
	C484	100P	100P	1000P	0.0022	0.0022	100P	100P
	C483	100P	100P	0.0022	0.0022	0.0022	0.0022	100P
	C398-C399	O	O	O	O	O	X	O
	CP402	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT	SHORT
	C583	X	X	X	O	O	X	X
	C584	X	X	X	O	O	X	X

MODEL MX-J76
MODEL MX-J70
MODEL MX-J75R
MODEL CA-MXJ75
MODEL CA-MXJ70

SHEET 3/11

■ Tuner Section (For Ver. J, C, A, U)


FMC-017-1(2/2)
ANT TERMINAL
AM
FM
GND
HOT
QNB0014-001
QNB0008-001
FM TUNER PACK
TU1
QAU0097-001
DOM : QAU0048-001
A : QAU0034-001
RF IN
GND
GND
+B
VT
OSC OUT
GND
IF OUT
TO FLAME
QQR0795-001
[MWRF]
[MWOSC]
2SC1923(O)E2
Q1
FM IF
CF1
CF2
QAX0419-001Z
A:QAX0420-001
A:QAX0421-001
[AM IF]
T1
QQR0793-001
IC1
LA1838
FM IF/DET/MPX AM RF/IF/DET
IC2
LC72136N
PLL
X1
QAX0402-001
L4
QQL231K-221
Q6
KRA107M-T
FM/AM SW
D5
MTZJ5.6B-T2
TUNER GND
TUNER R
TUNER L
TUNER +9V
DATA
MPX
CLOCK
TUCE
Vt/FM+B
FROM EXTERNAL INPUT SOURCE
A
B
C
D
E
F
G
1
2
3
4
5

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS133T
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

	J/C	U	DOM	A
R2	B/W	B/W	820	180
R19	62K	62K	62K	39K
R27	62K	62K	62K	39K
C29	222	152	152	182
C30	222	152	152	182
C18	471	471	471	152
C19	471	471	471	152
C44	0	0	0	X

0 : USED
X : NOT USED

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.5	9.1	3.5	3.5	0.4	7.0	6.4	9.1	0	1.3	0.3	0.5	0.8	8	8	4.3	4.3	4.3	4.3	3.2	3.2	2.8	3.5	0	0	3.4	[illegible]	3.6	3.6	2.3
	FM 60dB STEREO	3.5	9.1	3.5	3.5	0	0	0.2	9.1	2.3	1.3	4.3	0	0.8	8	8.1	4.3	4.3	4.3	4.3	3.2	3.2	2.8	3.1	0	0	3.6	[illegible]	3.6	3.6	2.3
	AM NO SIGNAL	3.5	9.1	3.5	3.5	0	9.1	6.4	9.1	2.7	1.3	0	0	0.8	0.1	5.6	4.2	4.2	4.2	4.2	3.2	3.2	2.8	2.9	0.8	0.8	3.5	[illegible]	3.5	3.5	2.1
IC2	FM NO SIGNAL	2.4	0	0	5.6	4.9	5.6	8	8	3.6	3.8	8.4	0	0	0	0	2.4	4.9	0.7	0.7	7.2	0	2.6								

Tr NO.	Q1			Q6					
PIN NO.	E	C	B	E	C	B			
FM 87.5MHz NO SIGNAL	0	7.4	0.8	8.4	8.3	0			
AM 522KHz NO SIGNAL	0	0	0	8.5	0	8.4			
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	3.5	3.5	0.3	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	3.5	3.5	3.5	0	0	0.1	0	0	0.1

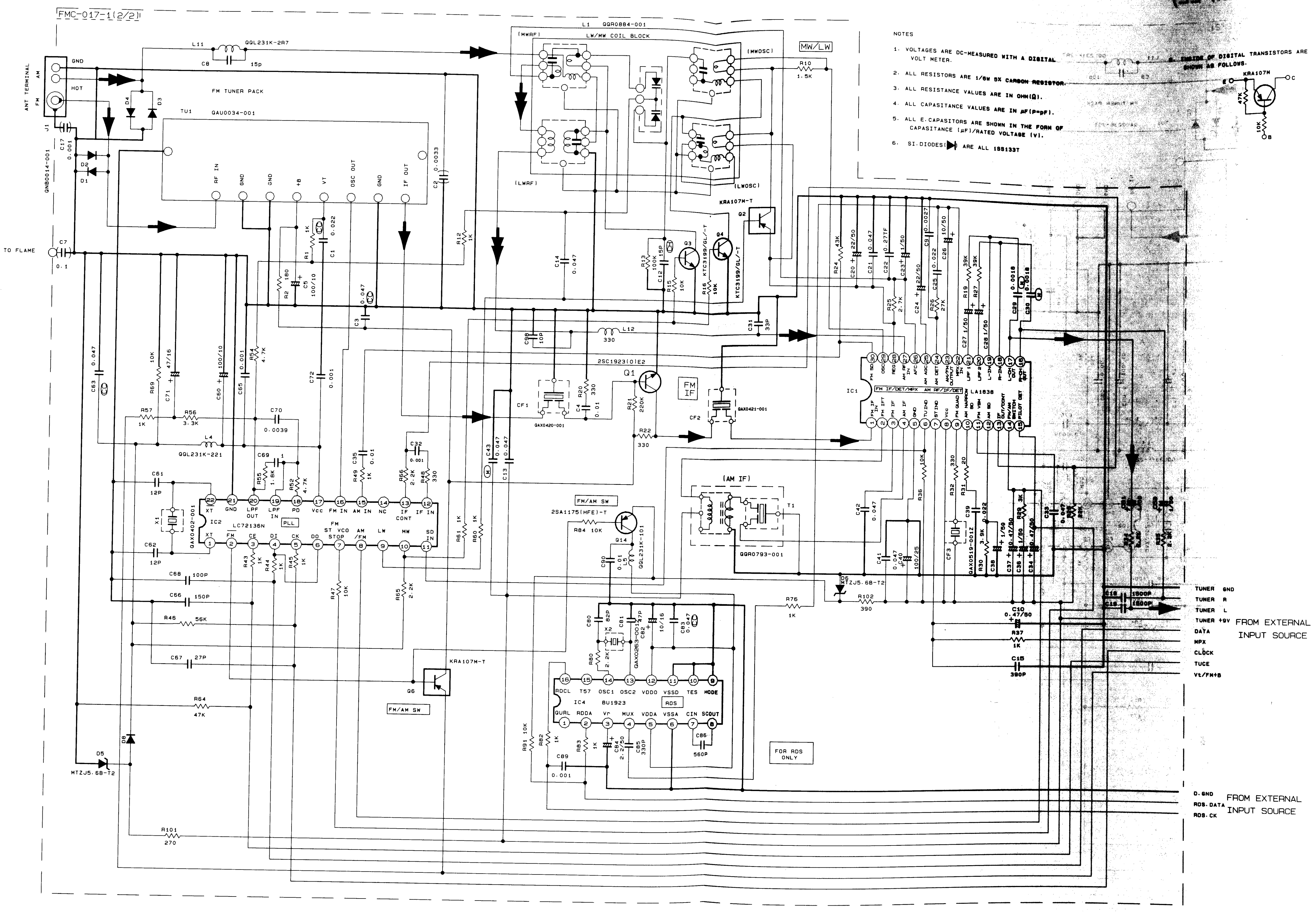
→ FM/TUNER MAIN SIGNAL

⇒ AM SIGNAL

A/C/J/U
MODEL CA-MXJ70
MX-J70
MX-J76

SHEET 4/11

■ Tuner Section (For Ver. B, E, EN, EV)


FMC-017-1(2/2)
ANT TERMINAL
AM
FM
GND
HOT
J1
QNB0014-001
C17 0.001
D1
D2
D3
D4
TO FLAME
C7 0.1
L11 QQL231K-2R7
C8 15p
FM TUNER PACK
TU1 QAU0034-001
RF IN
GND
GND
+B
VT
OSC OUT
GND
IF OUT
C2 0.0033
L1 QQR0884-001
LW/MW COIL BLOCK
(MWRF)
(LWRF)
(MWOSC)
(LWOSC)
MW/LW
R10 1.5K
R12 1K
KRA107M-T
Q2
Q3
Q4
KTC3199(GL)-T
R13 100K
C12 15P
R15 10K
R16 10K
C14 0.047
C31 33P
L12 330
C98 10P
2SC1923(O)E2
Q1
FM IF
CF1 QAX0420-001
CF2 QAX0421-001
R20 330
C4 0.01
R21 220K
R22 330
IC1 LA1838
FM IF/DET/MPX AM RF/IF/DET
(AM IF)
T1
QQR0793-001
CF3 QAX0519-001Z
R1 1K
C1 0.022
R2 180
C5 100/10
C3 0.047
C63 0.047
R69 10K
C71 47/16
C60 100/10
C65 0.001
R54 4.7K
C72 0.001
R57 1K
R56 3.3K
C70 0.0039
L4 QQL231K-221
C69 1
R55 1.8K
R52 4.7K
R49 1K
C35 0.01
C32 0.001
R66 2.2K
R48 330
C43
C13 0.047
C61 12P
C62 12P
X1 QAX0402-001
IC2 LC72136N
PLL
XT
GND
LPF OUT
LPF IN
PD
Vcc
FM IN
AM IN
NC
IF CONT
IF IN
CE
DI
CK
DO
FM ST STOP
VCO STOP
AM /FM
LW
MW
SD IN
R43 1K
R44 1K
R45 1K
R47 10K
R65 2.2K
R61 1K
R60 1K
C68 100P
C66 150P
R46 56K
C67 27P
R64 47K
Q6
KRA107M-T
FM/AM SW
D5 MTZJ5.6B-T2
D8
R101 270
FM/AM SW
2SA1175(HFE)-T
R84 10K
Q14
QQL231K-101
C90 0.01
C80 82P
C81 27P
X2
C82 QAX0263-001
C83 0.047
10/16
R80 2.2K
IC4 BU1923
RDS
RDCL
T57
OSC1
OSC2
VDDD
VSSD
TES
MODE
QUAL
RDDA
Vr
MUX
VDDA
VSSA
CIN
SCOUT
R91 10K
R82 1K
R83 1K
C84 2.2/50
C85 330P
C86 560P
C89 0.001
FOR RDS ONLY
R76 1K
D6 MTZJ5.6B-T2
R102 390
R24 43K
C20 22/50
C21 0.047
C22 0.27
C23 1/50
C9 0.0027
C26 10/50
C24 22/50
C25 0.022
R25 2.7K
R26 27K
R19 39K
R27 39K
C27 1/50
C28 1/50
C29 0.0018
C30 0.0018
C42 0.047
R36 10K
C41 0.047
C40 100/25
R32 330
R31 20
C39 0.022
R30 3.9K
C37 1/50
C38 0.47/50
C36 0.47/50
C34 0.47/50
C10 0.47/50
R37 1K
C15 390P
C16 1500P
C19 1500P
TUNER GND
TUNER R
TUNER L
TUNER +9V
DATA
MPX
CLOCK
TUCE
Vt/FM+B
FROM EXTERNAL INPUT SOURCE
D.GND
RDS.DATA
RDS.CK
FROM EXTERNAL INPUT SOURCE
KRA107M
E
C
B
47K
10K
5
4
3
A
B
C
D
E
F
G

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS133T

7. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.5	9.1	3.5	3.5	0.4	7.0	6.4	9.1	0	1.3	0.3	0.5	0.8	8	8	4.3	4.3	4.3	4.3	3.2	3.2	2.8	3.5	0	0	3.4	3.4	3.6	3.6	2.3
	FM 60dB STEREO	3.5	9.1	3.5	3.5	0	0	0.2	9.1	2.3	1.3	4.3	0	0.8	8	8.1	4.3	4.3	4.3	4.3	3.2	3.2	2.8	3.1	0	0	3.6	3.6	3.6	3.6	2.3
	AM NO SIGNAL	3.5	9.1	3.5	3.5	0	9.1	6.4	9.1	2.7	1.3	0	0	0.8	0.1	5.6	4.2	4.2	4.2	4.2	3.2	3.2	2.8	2.9	0.6	0.5	3.5	3.5	3.5	3.5	2.1
IC2	FM NO SIGNAL	2.4	0	0	5.6	4.9	5.6	8	8	3.6	3.8	8.4	0	0	0	0	2.4	4.9	0.7	0.7	7.2	0	2.6								

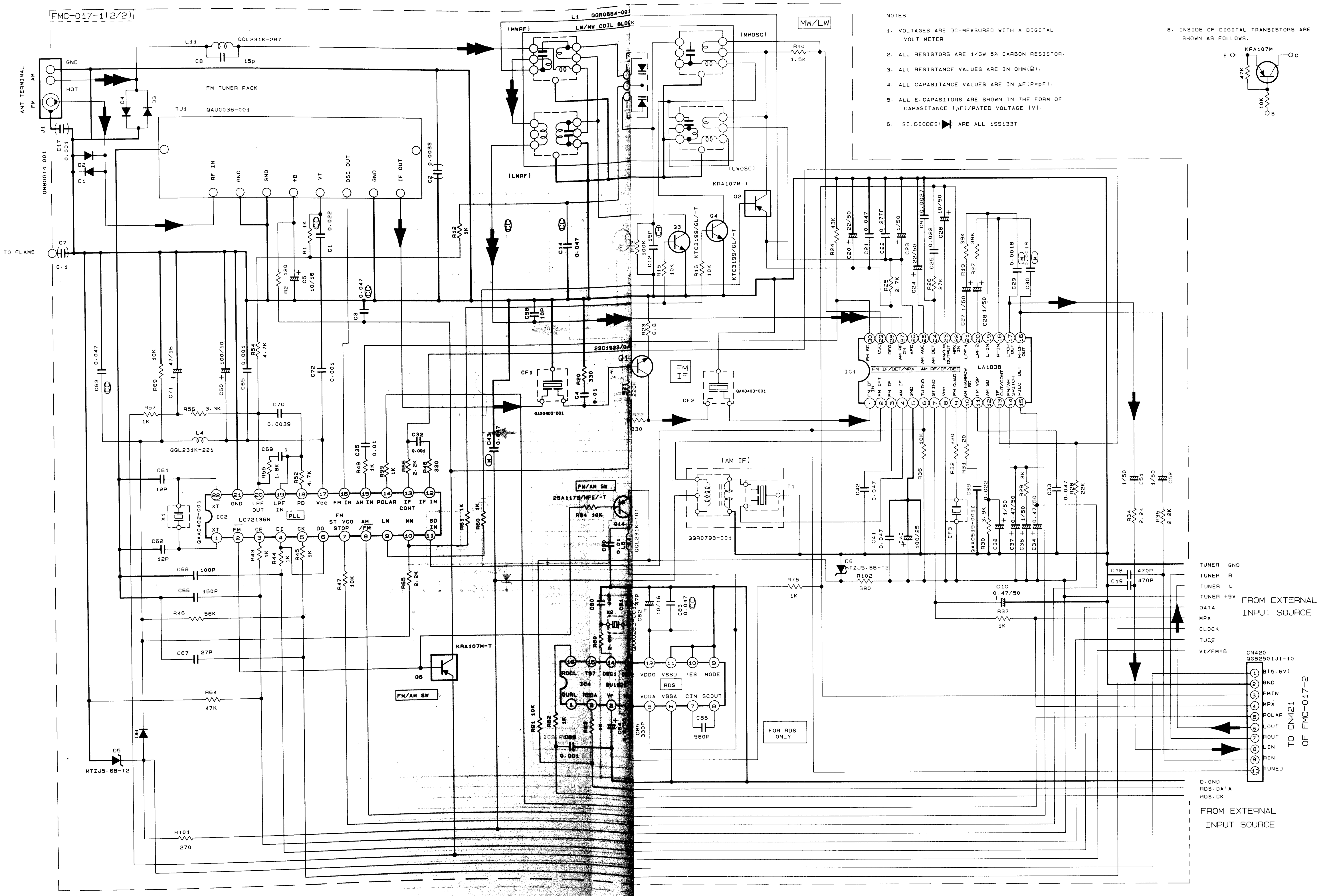
Tr NO.	Q1			Q6					
PIN NO.	E	C	B	E	C	B			
FM 87.5MHz NO SIGNAL	0	7.4	0.8	8.4	8.3	0			
AM 522KHz NO SIGNAL	0	0	0	8.5	0	8.4			
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	3.5	3.5	0.3	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	3.5	3.5	3.5	0	0	0.1	0	0	0.1

➡ FM/TUNER MAIN SIGNAL

⏩ AM SIGNAL

B/E/EN/EV
CA-MXJ75R
SHEET 5/11

■ Tuner Section (For Ver. EE)


FMC-017-1(2/2)
ANT TERMINAL
AM
FM
GND
HOT
J1
QNB0014-001
TO FLAME
FM TUNER PACK
TU1 QAU0036-001
RF IN
GND
GND
+B
VT
OSC OUT
GND
IF OUT
L11 QQL231K-2R7
L1 QQR0884-001
LW/MW COIL BLOCK
(MWRF)
(LWRF)
(MWOSC)
(LWOSC)
MW/LW
KRA107M-T
KTC3199/GL/-T
2SC1923/O/-T
2SA1175/HFE/-T
FM IF
CF1
CF2
QAX0403-001
(AM IF)
T1
QQR0793-001
CF3
QAX0519-001Z
IC1
LA1838
IC2
LC72136N
XT
FM
CE
DI
CK
DO
FM ST VCO STOP
AM /FM
LW
MW
SD IN
PLL
LPF OUT
LPF IN
PD
Vcc
FM IN
AM IN
POLAR
IF CONT
IF IN
X1
QAX0402-001
L4 QQL231K-221
FM/AM SW
IC4
RDS
FOR RDS ONLY
VDDO
VSSD
TES
MODE
VDDA
VSSA
CIN
SCOUT
D5 MTZJ5.6B-T2
D6 MTZJ5.6B-T2
TUNER GND
TUNER R
TUNER L
TUNER +9V
DATA
MPX
CLOCK
TUGE
Vt/FM+B
FROM EXTERNAL INPUT SOURCE
CN420 QGB2501J1-10
B(5.6V)
GND
FMIN
MPX
POLAR
LOUT
ROUT
LIN
RIN
TUNED
TO CN421 OF FMC-017-2
D.GND
RDS.DATA
RDS.CK
FROM EXTERNAL INPUT SOURCE
KRA107M
E
C
B
47K
10K
5
4
3
2
1
A
B
C
D
E
F
G

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER.
2. ALL RESISTORS ARE 1/6W 5% CARBON RESISTOR.
3. ALL RESISTANCE VALUES ARE IN OHM(Ω).
4. ALL CAPASITANCE VALUES ARE IN μF(P=pF).
5. ALL E.CAPASITORS ARE SHOWN IN THE FORM OF CAPASITANCE (μF)/RATED VOLTAGE (V).
6. SI.DIODES(▶|) ARE ALL 1SS133T
8. INSIDE OF DIGITAL TRANSISTORS ARE SHOWN AS FOLLOWS.

	CONDITION PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
IC1	FM NO SIGNAL	3.5	9.1	3.5	3.5	0.4	7.0	6.4	9.1	0	1.3	0.3	0.5	0.8	8	8	4.3	4.3	4.3	4.3	3.2	3.2	2.8	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	2.3
	FM 60dB STEREO	3.5	9.1	3.5	3.5	0	0	0.2	9.1	2.3	1.3	4.3	0	0.8	8	8.1	4.3	4.3	4.3	4.3	3.2	3.2	2.8	3.1	0	0	[illegible]	[illegible]	[illegible]	[illegible]	2.3
	AM NO SIGNAL	3.5	9.1	3.5	3.5	0	9.1	6.4	9.1	2.7	1.3	0	0	0.8	0.1	5.6	4.2	4.2	4.2	4.2	3.2	3.2	2.8	[illegible]	0.6	0.6	[illegible]	[illegible]	[illegible]	[illegible]	2.1
IC2	FM NO SIGNAL	2.4	0	0	5.6	4.9	5.6	8	8	3.6	3.8	8.4	0	0	0	0	2.4	4.9	0.7	0.7	7.2	0	2.8								

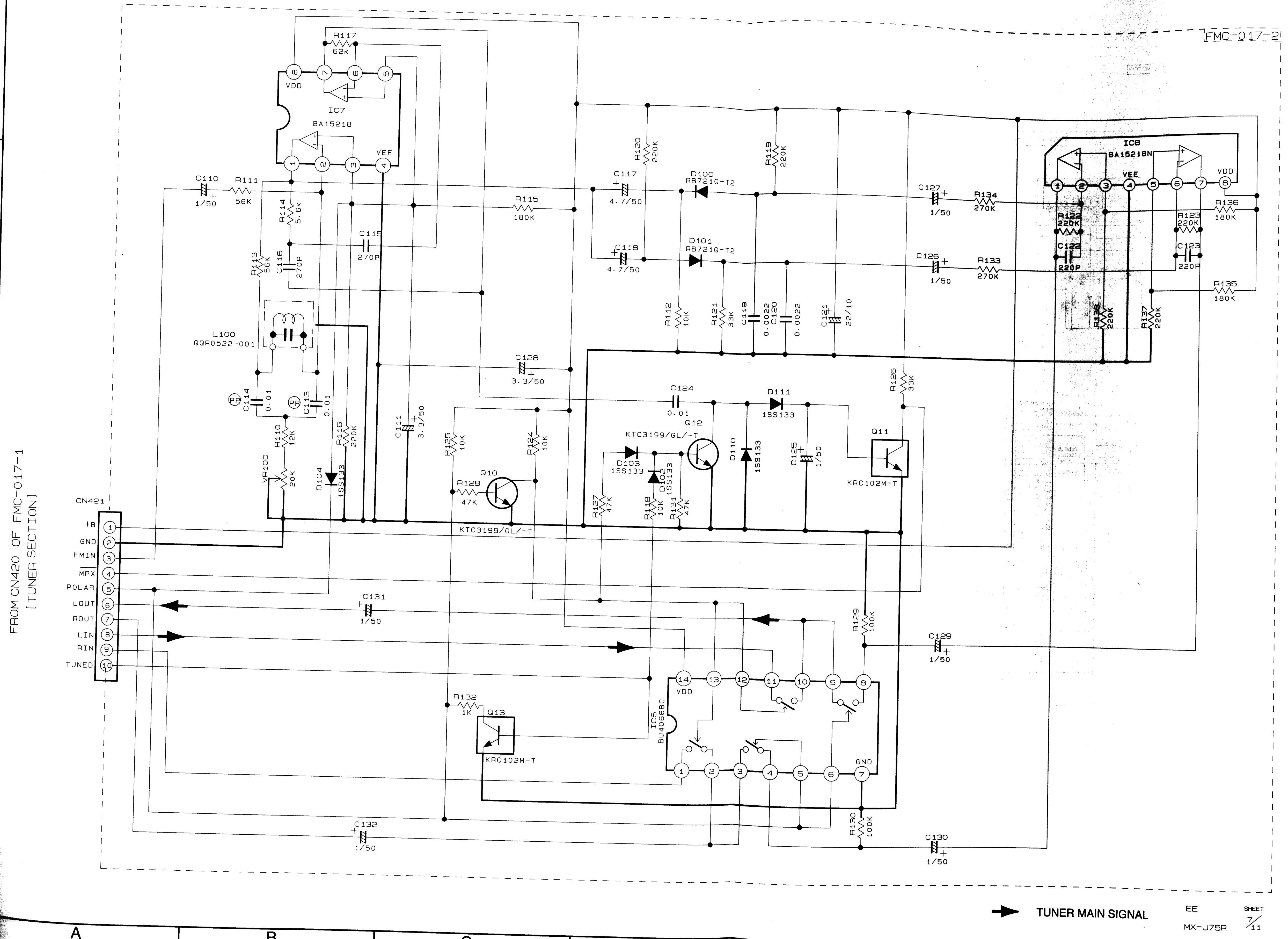
Tr NO.	Q1			Q6					
PIN NO.	E	C	B	E	C	B			
FM 87.5MHz NO SIGNAL	0	7.4	0.8	8.4	8.3	0			
AM 522KHz NO SIGNAL	0	0	0	8.5	0	8.4			
Tr NO.	Q2			Q3			Q4		
PIN NO.	E	C	B	E	C	B	E	C	B
AM 522KHz NO SIGNAL	3.5	3.5	0.3	0	0	0.7	0	0	0.7
AM 144KHz NO SIGNAL	3.5	3.5	3.5	0	0	0.1	0	0	0.1

→ FM/TUNER MAIN SIGNAL

↠ AM SIGNAL

EE
MX-J75R
SHEET 6/11

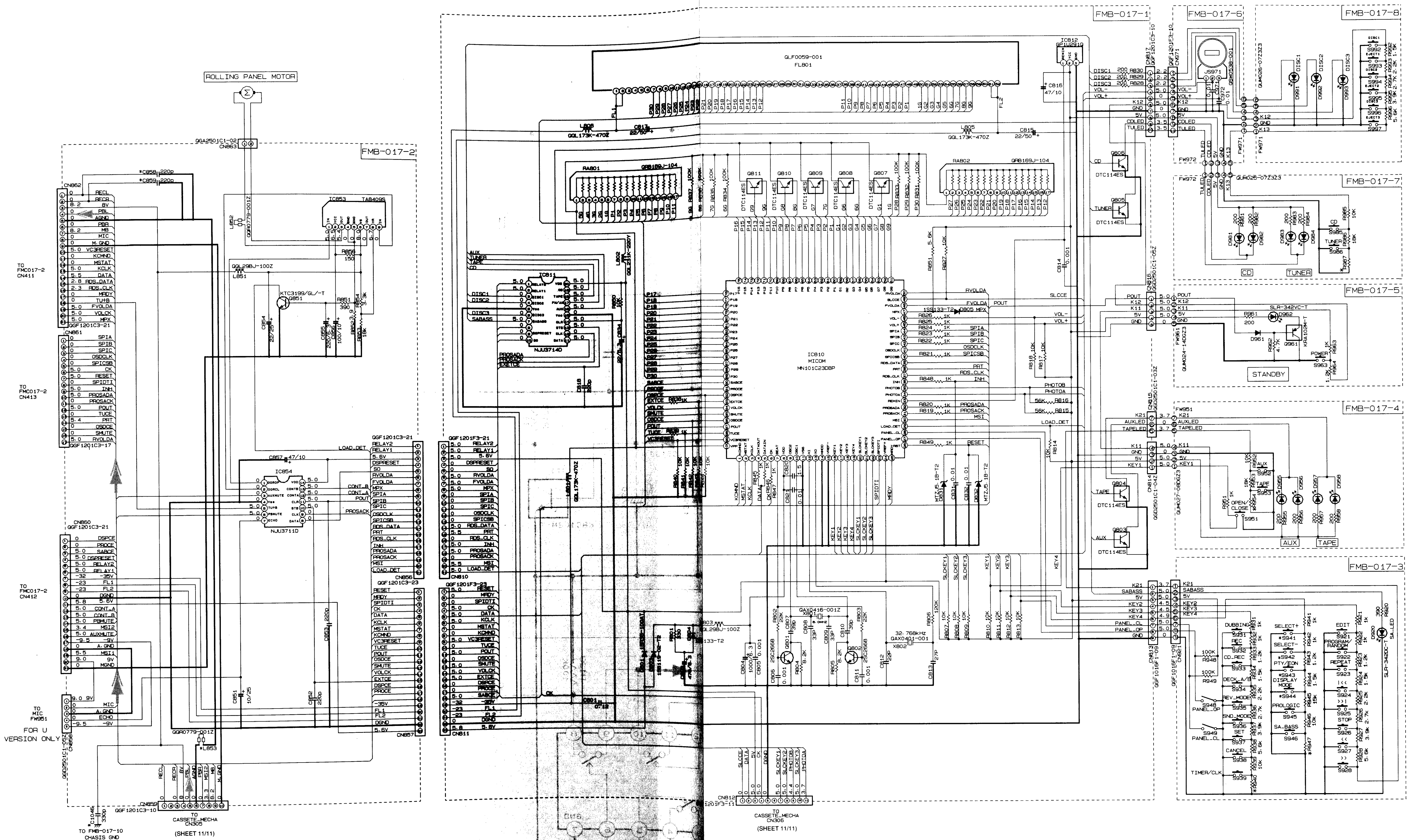
■ Tuner Section (For Ver. EE)


FMC-017-2
IC7
BA15218
VDD
VEE
R117 62K
C110 1/50
R111 56K
R114 5.6K
R113 56K
C116 270P
C115 270P
R115 180K
L100 QQR0522-001
C114 0.01
C113 0.01
PP
R110 12K
VR100 20K
D104 1SS133
R116 220K
C111 3.3/50
C128 3.3/50
C117 4.7/50
C118 4.7/50
R120 220K
D100 RB721Q-T2
D101 RB721Q-T2
R119 220K
R112 10K
R121 33K
C119 0.0022
C120 0.0022
C121 22/10
C127 1/50
C126 1/50
R134 270K
R133 270K
IC8 BA15218N
R122 220K
C122 220P
R123 220K
C123 220P
R136 180K
R135 180K
R138 220K
R137 220K
R126 33K
C124 0.01
D111 1SS133
Q12
KTC3199/GL/-T
D103 1SS133
D102 1SS133
D110 1SS133
C125 1/50
Q11
KRC102M-T
R125 10K
R124 10K
Q10
R128 47K
KTC3199/GL/-T
R127 47K
R118 10K
R131 47K
CN421
+B
GND
FMIN
MPX
POLAR
LOUT
ROUT
LIN
RIN
TUNED
FROM CN420 OF FMC-017-1 [TUNER SECTION]
C131 1/50
R129 100K
C129 1/50
IC6 BU4066BC
VDD
GND
R132 1K
Q13
KRC102M-T
C132 1/50
R130 100K
C130 1/50
TUNER MAIN SIGNAL
EE
MX-J75R
SHEET 7/11

A B C D E F G

5 4 3

■ FL Display & System Controller Section


ROLLING PANEL MOTOR
FMB-017-2
FMB-017-1
FMB-017-6
FMB-017-8
FMB-017-7
FMB-017-5
FMB-017-4
FMB-017-3
FL801
QLF0059-001
IC810
MICOM
MN101C23DBP
IC811
NJU3714D
IC853
TA8409S
IC854
NJU3711D
IC812
GP1U291Q
RA801
RA802
TO FMC017-2 CN411
TO FMC017-2 CN413
TO FMC017-2 CN412
TO MIC FW951
FOR U VERSION ONLY
TO FMB-017-10 CHASIS GND
CN859
QGF1201C3-10
TO CASSETE_MECHA CN305
(SHEET 11/11)
CN812
QGF1201F3-11
TO CASSETE_MECHA CN306
(SHEET 11/11)
STANDBY
CD
TUNER
AUX
TAPE
DTC114ES
32.768kHz
1
2
3
4
5
A
B
C
D
E
F
G

* MARK	J50-SERIES								J70-SERIES						
MODEL	MX-J50 MX-J56	MX-J50				CA-MXJ50	CA-MXJ55R CA-MXJ530R	MX-J55R	MX-J70 MX-J76	CA-MXJ70				CA [illegible] J75R	MX-J75R
ITEM / VERSION	J/C	U/UP/US/UT/UV	UR/UY	UX	A	DOM	B/E/EN/EV	EE	J/C	U/UP/US/UT/UV	UR/UY	UX	A	B/[illegible]/EV	EE
S941	X	X	X	X	X	X	0	0	X	X	X	X	X	[illegible]	0
S942	X	X	X	X	X	X	0	0	X	X	X	X	X	[illegible]	0
S943	X	X	X	X	X	X	0	0	X	X	X	X	X	[illegible]	0
S944	X	X	X	X	X	X	0	0	X	X	X	X	X	[illegible]	0
R940	56K	56K	X	18K	X	X	56K	X	56K	56K	X	18K	X	[illegible]	X
R947	56K	X	18K	X	X	X	X	56K	56K	X	18K	X	X	[illegible]	56K
R954	56K	56K	X	X	56K	X	X	X	56K	56K	X	X	56K	[illegible]	X
R987	X	X	X	X	X	X	X	X	56K	56K	56K	56K	56K	[illegible]	56K
L853	SHORT	SHORT	SHORT	SHORT	0	SHORT	0	SHORT	SHORT	SHORT	SHORT	SHORT	0	[illegible]	SHORT
C858	X	X	X	X	0	X	0	X	X	X	X	X	0	[illegible]	X
C859	X	X	X	X	0	X	0	X	X	X	X	X	0	[illegible]	X
C1046	X	X	X	X	0	X	0	X	X	X	X	X	0	[illegible]	X

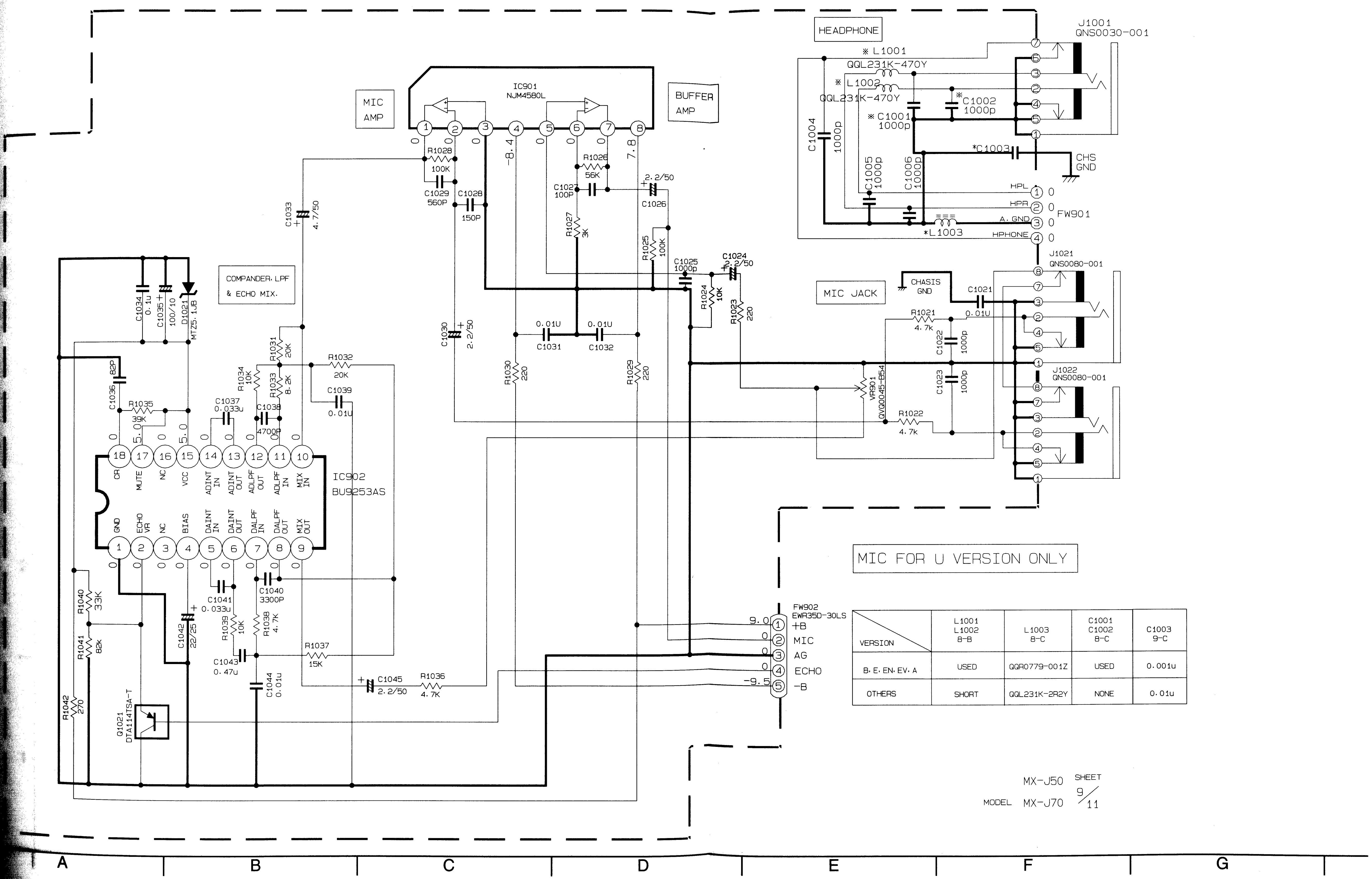
NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION —— TAPE PB MODE
2. UNLESS OTHERWISE SPECIFIED
   RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133
3. ALL TACT SWICTHES ARE QSW0674-001Z UNLESS OTHERWISE SPECIFIED
4. ALL LEDs ARE SLR-342MC-T UNLESS OTHERWISE SPECIFIED

⇒ TAPE P.B. SIGNAL

MX-J70 SHEET
MODEL MX-J50 8/11

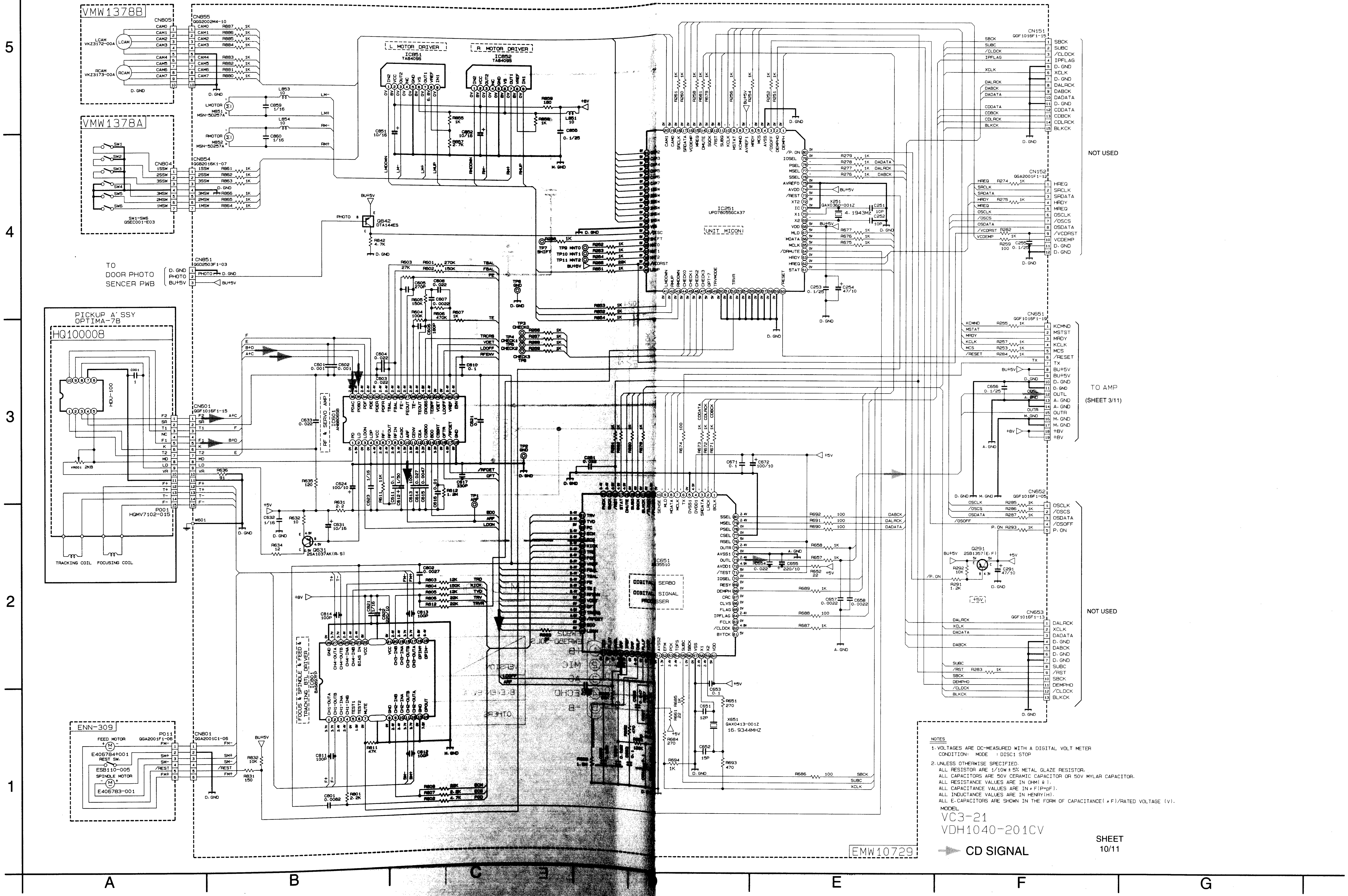
MIC & Headphone Section


IC901
NJM4580L
MIC AMP
BUFFER AMP
COMPANDER, LPF & ECHO MIX.
IC902
BU9253AS
CR
MUTE
NC
VCC
ADINT IN
ADINT OUT
ADLPF OUT
ADLPF IN
MIX IN
GND
ECHO VR
NC
BIAS
DAINT IN
DAINT OUT
DALPF IN
DALPF OUT
MIX OUT
R1028 100K
C1029 560P
C1028 150P
R1026 56K
C1027 100P
R1027 3K
C1026 2.2/50
R1025 100K
C1025 1000p
C1024 2.2/50
R1024 10K
R1023 220
C1033 4.7/50
C1030 2.2/50
C1031 0.01U
C1032 0.01U
R1030 220
R1029 220
C1034 0.1u
C1035 100/10
D1021 MTZ5.1JB
C1036 82P
R1035 39K
C1037 0.033u
C1038 4700P
R1034 10K
R1031 20K
R1033 8.2K
R1032 20K
C1039 0.01U
C1041 0.033u
C1040 3300P
R1039 10K
R1038 4.7K
C1043 0.47u
C1044 0.01u
R1037 15K
C1045 2.2/50
R1036 4.7K
C1042 22/25
R1040 33K
R1041 82K
R1042 270
Q1021 DTA114TSA-T
HEADPHONE
J1001 QNS0030-001
※L1001 QQL231K-470Y
※L1002 QQL231K-470Y
※C1001 1000p
※C1002 1000p
*C1003
C1004 1000p
C1005 1000p
C1006 1000p
*L1003
CHS GND
HPL
HPR
A.GND
HPHONE
FW901
MIC JACK
CHASIS GND
C1021 0.01U
R1021 4.7k
C1022 1000p
C1023 1000p
R1022 4.7k
VR901 QVQ0045-B54
J1021 QNS0080-001
J1022 QNS0080-001
FW902 EWR35D-30LS
9.0
-9.5
+B
MIC
AG
ECHO
-B
MIC FOR U VERSION ONLY
A
B
C
D
E
F
G

VERSION	L1001 L1002 8-B	L1003 8-C	C1001 C1002 8-C	C1003 9-C
B, E, EN, EV, A	USED	QQR0779-001Z	USED	0.001u
OTHERS	SHORT	QQL231K-2R2Y	NONE	0.01u

MX-J50 SHEET
MODEL MX-J70 9/11

■ CD Servo & CD Mechanism Control Section


VMW1378B
LCAM VKZ3172-00A
RCAM VKZ3173-00A
CN805
CN855 QGG2002M4-10
VMW1378A
CN804
CN854 QGB2016K1-07
SW1-SW6 QSEC001-E03
L MOTOR DRIVER
IC851 TA8409S
R MOTOR DRIVER
IC852 TA8409S
LMOTOR M851 MSN-50257A
RMOTOR M852 MSN-50257A
PHOTO
Q842 DTA144ES
TO DOOR PHOTO SENCER PWB
CN851 QGD2503F1-03
PICKUP A'SSY OPTIMA-7B
HQ100008
HOU-100
TRACKING COIL
FOCUSING COIL
P001 HQMV7102-015
CN501 QGF1016F1-15
RF & SERVO AMP IC501 AN8805SB
Q631 2SA1037AK(R,S)
FOCUS & SPINDLE & FEED & TRACKING BTL DRIVER IC801 BA6897FP
ENN-309
FEED MOTOR
E406784+001 REST SW.
ESB110-005
SPINDLE MOTOR
E406783-001
P011 QGA2001F1-06
CN801 QGA2001C1-06
IC651 MN35510
DIGITAL SERVO DIGITAL SIGNAL PROCESSER
X651 QAX0413-001Z 16.9344MHZ
IC251 UPD78055GCA37
UNIT MICON
X251 QAX0360-001Z 4.1943MHz
CN151 QGF1016F1-15
NOT USED
CN152 QGA2001F1-12
CN651 QGF1016F1-19
TO AMP (SHEET 3/11)
CN652 QGF1016F1-05
Q291 2SB1357(E,F)
CN653 QGF1016F1-13
NOT USED
EMW10729
5
4
3
2
1
A
B
C
D
E
F
G

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
CONDITION: MODE : DISC1 STOP

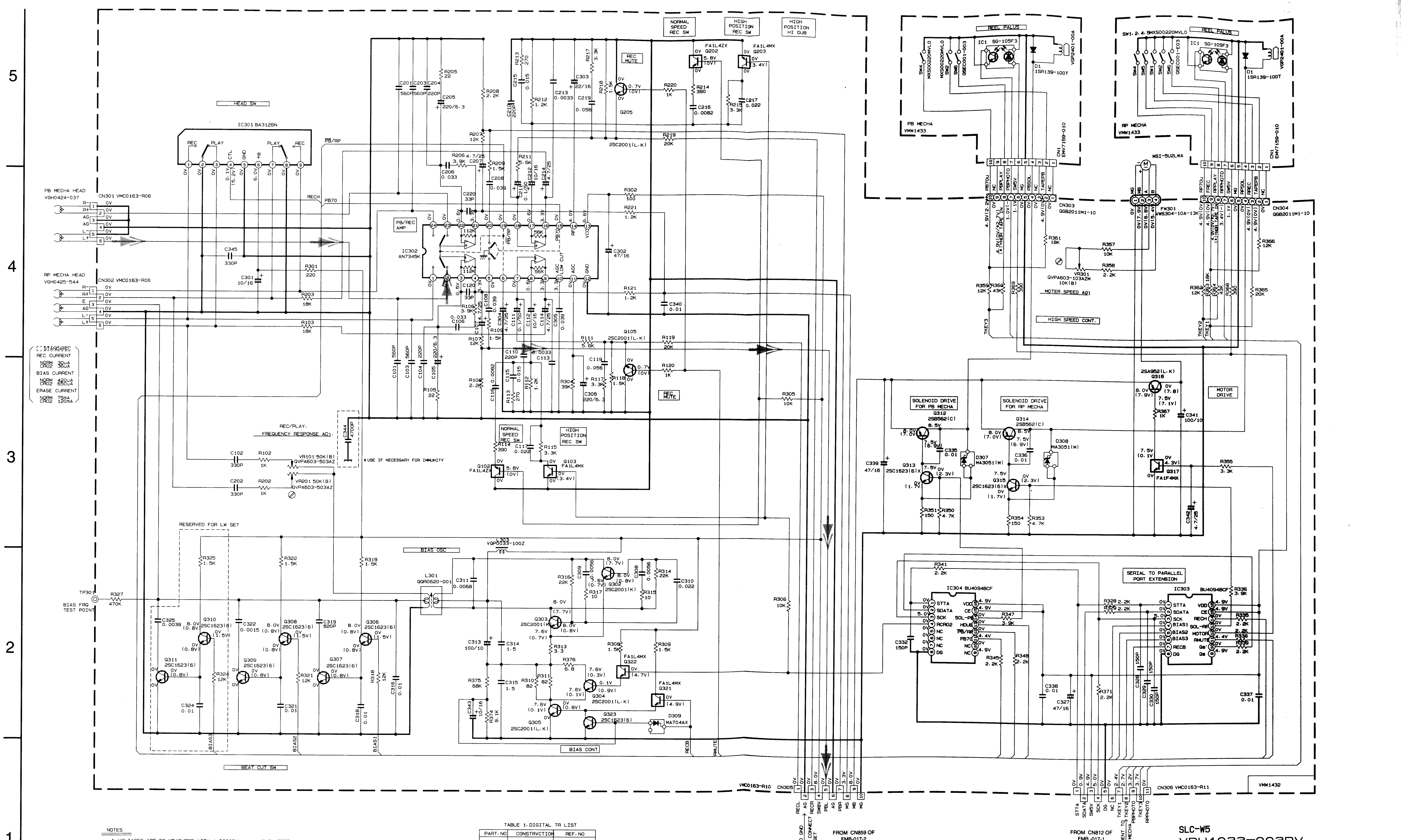
2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTOR ARE 1/10W ± 5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITANCE VALUES ARE IN µF(P=pF).
ALL INDUCTANCE VALUES ARE IN HENRY(H).
ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(µF)/RATED VOLTAGE (V).

MODEL
VC3-21
VDH1040-201CV

➡ CD SIGNAL

SHEET
10/11

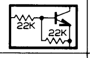
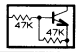
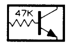
■ Head Amplifier & Mechanism Control Section


5
4
3
2
1
A
B
C
D
E
F
G
HEAD SW
IC301 BA3126N
REC
PLAY
PB/RP
PB MECHA HEAD
VGH0424-037
CN301 VMC0163-R06
RP MECHA HEAD
VGH0425-544
CN302 VMC0163-R06
REC CURRENT
NORM 30uA
CRO2 30uA
BIAS CURRENT
NORM 420uA
CRO2 650uA
ERASE CURRENT
NORM 75mA
CRO2 120mA
PB/REC AMP
IC302 AN7345K
REC/PLAY.
FREQUENCY RESPONSE ADJ.
VR101 50K(B) QVPA603-503AZ
VR201 50K(B) QVPA603-503AZ
USE IF NECESSARY FOR IMMUNITY
NORMAL SPEED REC SW
HIGH POSITION REC SW
HIGH POSITION HI DUB
REC MUTE
RESERVED FOR LW SET
TP301
BIAS FRQ TEST POINT
BIAS OSC
L301 QQR0620-001
T303 VQP0033-100Z
BIAS CONT
BEAT CUT SW
BIAS1
BIAS2
BIAS3
RECB
RMUTE
REEL PALUS
PB MECHA
VMW1433
RP MECHA
VMW1433
CN303 QGB2011M1-10
CN304 QGB2011M1-10
FW301 WW5304-10A-13K
MSI-5U2LWA
MOTER SPEED ADJ
VR301 QVPA603-103AZM 10K(B)
HIGH SPEED CONT.
SOLENOID DRIVE FOR PB MECHA
SOLENOID DRIVE FOR RP MECHA
MOTOR DRIVE
SERIAL TO PARALLEL PORT EXTENSION
IC304 BU4094BCF
IC303 BU4094BCF
VMC0163-R10
CN305
RECL
AG
RECR
SWBV
PBL
PBR
MS
MB
MG
GARD GND
NOT CONNECT TO SET
FROM CN859 OF
FMB-017-2
(SHEET 8/11)
CN306 VMC0163-R11
VMW1432
STTA
SDATA
SW5V
SCK
DG
NC
TKEY1
TKEY2
PBPHOTO
TKEY3
RPPHOTO
FROM CN812 OF
FMB-017-1
(SHEET 8/11)
DEFFERENT TO
SINGL MECHA

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL. ( ) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED
   - ALL RESISTANCE VALUES ARE IN OHM( )Ω
   - ALL CAPACITORS ARE CERAMIC CAPACITOR
   - ALL CAPACITANCE VALUES ARE IN F̲μ(P=pF).
   - ALL INDUCTANCE VALUES ARE IN H(m=mH).
   - ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   - ⫩ PLYPROPYLENE CAPACITOR

TABLE 1. DIGITAL TR LIST

PART. NO	CONSTRVCTION	REF. NO
FA1F4M		Q317
FA1L4M		Q103/Q203 Q321/Q322
FA1L4Z		Q102/Q202

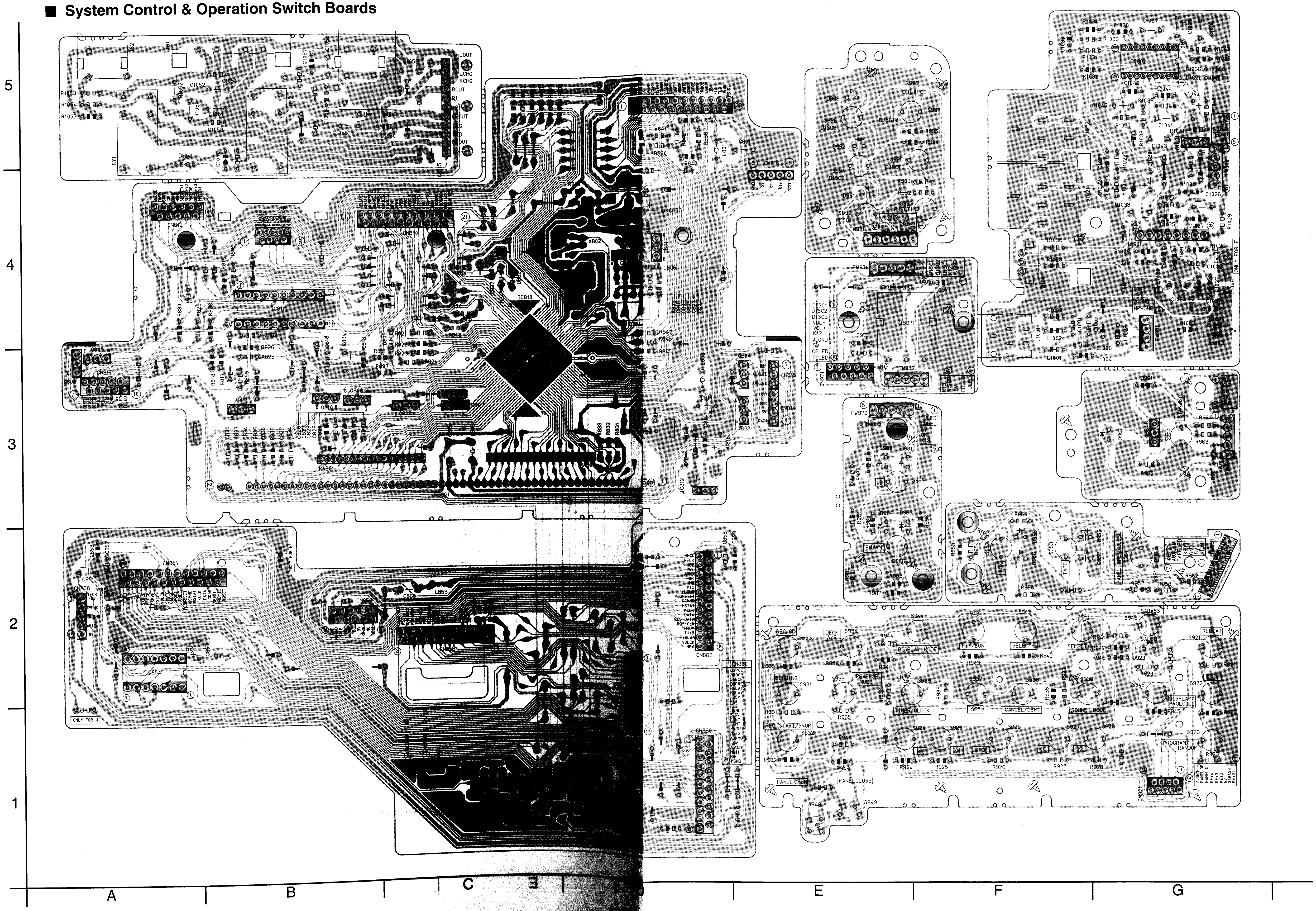
➡ TAPE P.B. SIGNAL

SLC-W5
VDH1033-003PV

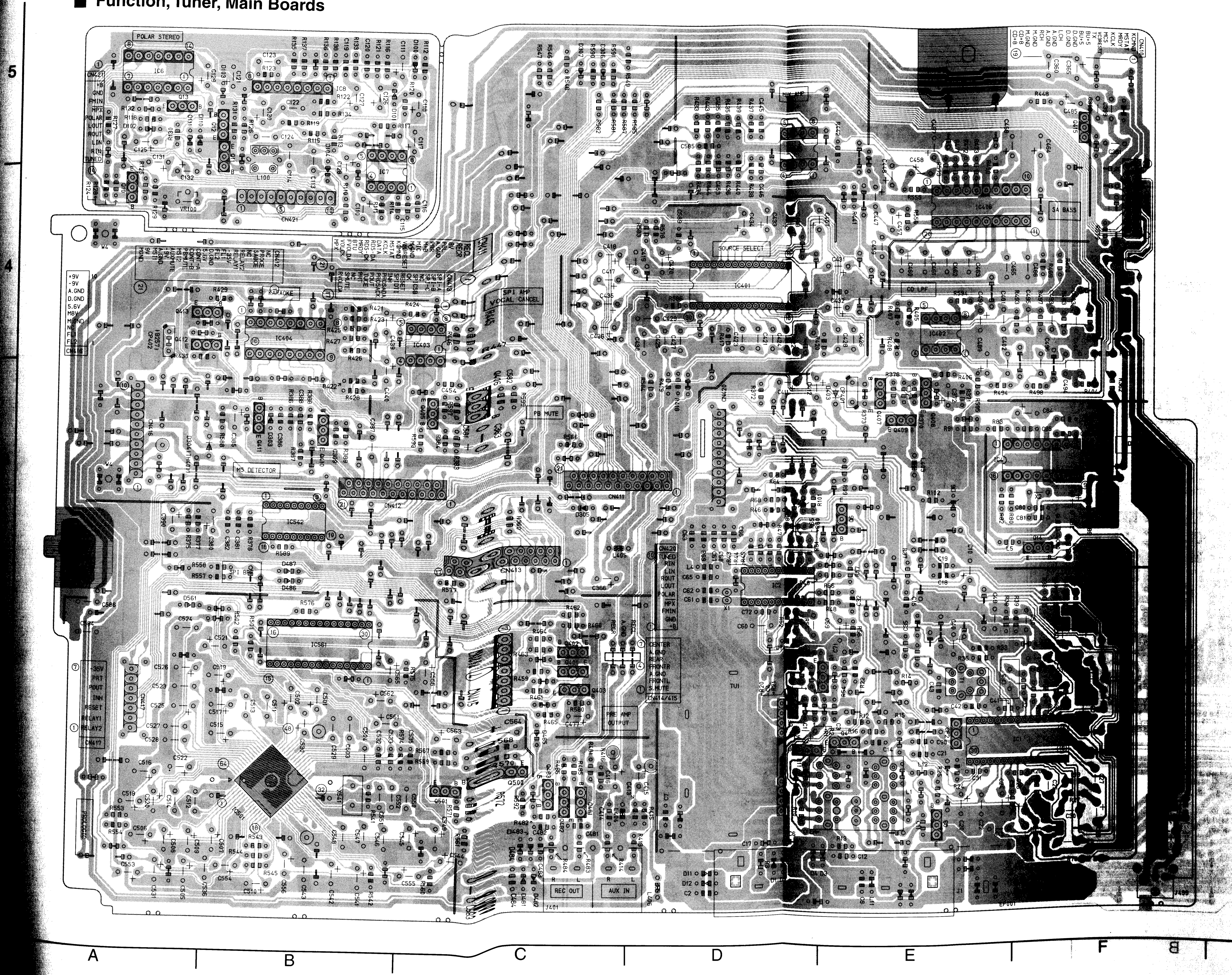
SHEET
11/11

Printed Circuit Boards

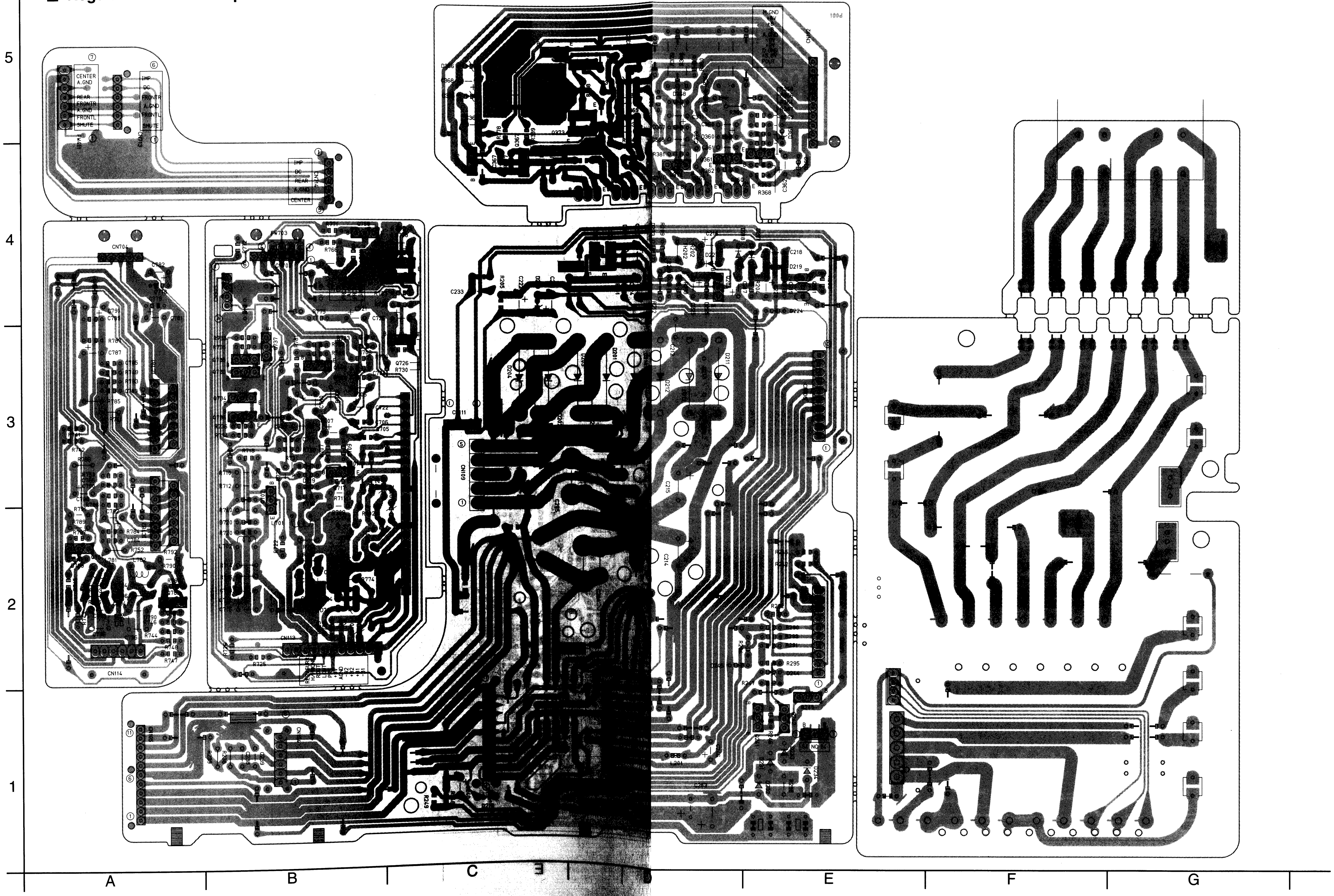
■ System Control & Operation Switch Boards


5
4
3
2
1
A
B
C
E
F
G
IC810
IC811
IC854
IC902
IC901
CN812
CN810
CN815
CN814
CN816
CN817
CN857
CN858
CN860
CN862
CN921
FW971
FW972
RY1
RY2
X802
ONLY FOR E
ONLY FOR U
LOUT
ROUT
EJECT3
EJECT2
EJECT1
DISC1
DISC2
DISC3
REC CD
DECK A/B
DISPLAY MODE
FM/EON
SELECT+
SELECT-
SA BASS
REPEAT
DUBBING
REVERSE MODE
TIMER/CLOCK
SET
CANCEL/DEMO
SOUND MODE
EDIT
DISPLAY/PROLOGIC
REC START/STOP
STOP
PROGRAM/RANDOM
PANEL OPEN
PANEL CLOSE
FM/AM
AUX
TAPE
PANEL OPEN/CLOSE
STANDBY
HPHONE
PWI

■ Function, Tuner, Main Boards



■ Regulator & Power Amplifier Boards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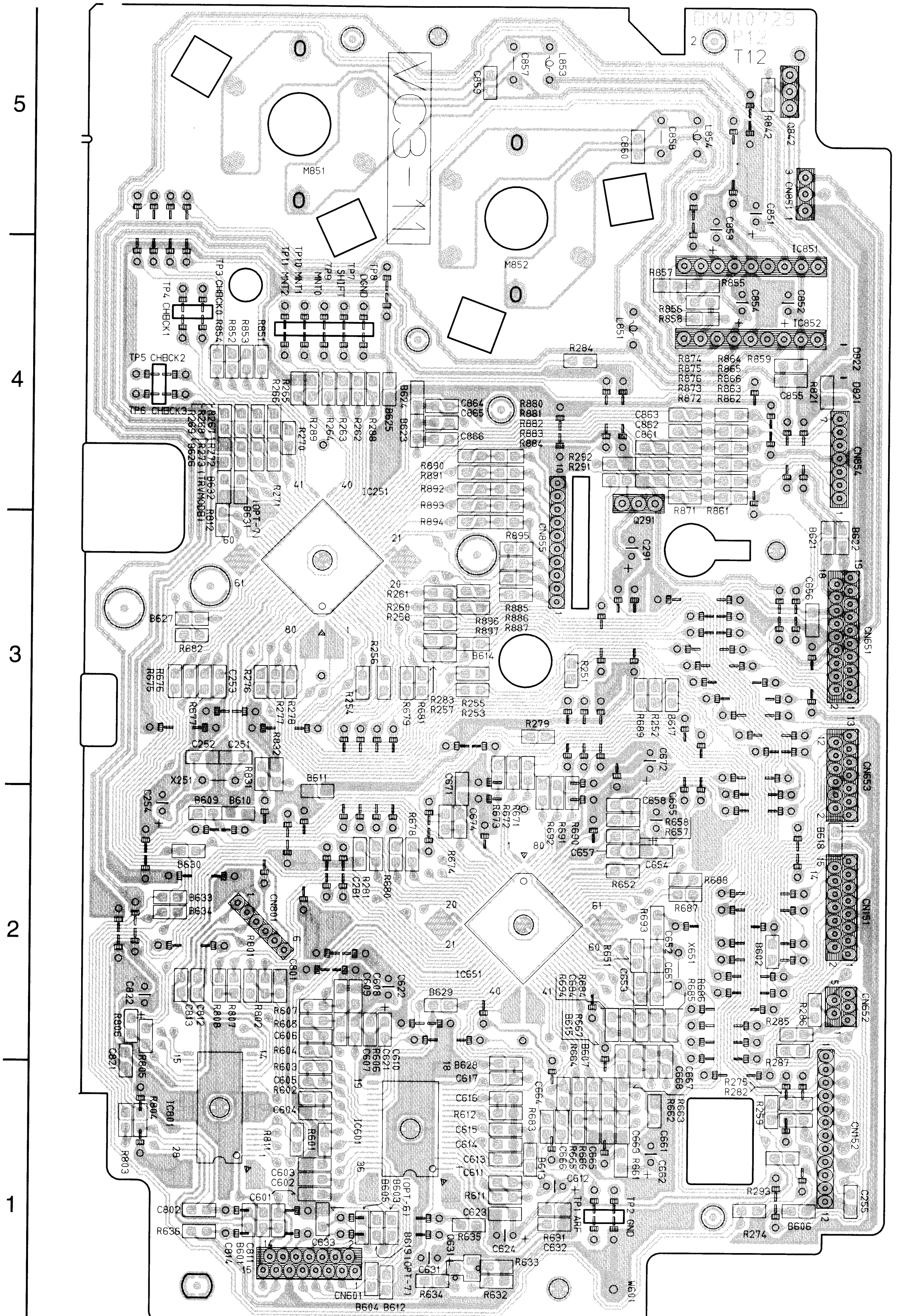
4
3
2
1
A
B
C
D
E
F
G
CENTER
A.GND
REAR
FRONTR
A.GND
FRONTL
SMUTE
IMP
DC
FRONTR
A.GND
FRONTL
SMUTE
IMP
DC
REAR
A.GND
CENTER
CN704
CN114
CN113
CN109
R295
R368
C233
R265
C218
D219
R744
R747
R725
R249

■ CD Servo Control Board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4
3
2
1
A
B
C
M851
M852
VC3-11
QMW10729
T12
IC851
IC852
IC251
IC651
IC601
IC801
CN851
CN854
CN855
CN651
CN653
CN191
CN652
CN152
CN601
CN801
Q842
Q291
X251
X651
D821
D822
L851
L853
L854
TP1 MNT1
TP2 GND
TP3 CHECK0
TP4 CHECK1
TP5 CHECK2
TP6 CHECK3
TP7 SHIFT
TP8 DGND
TP9 MNT0
TP10 MNT2
TP1 ARF
C251
C252
C253
C254
C255
C291
C601
C602
C603
C604
C605
C606
C611
C612
C613
C614
C615
C616
C617
C621
C622
C623
C624
C631
C632
C633
C651
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C662
C663
C672
C674
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C811
C812
C813
C814
C821
C822
C851
C852
C853
C854
C855
C857
C858
C859
C860
C861
C862
C863
C864
C865
C866
R251
R252
R253
R255
R256
R257
R258
R260
R261
R274
R275
R279
R282
R283
R284
R285
R286
R287
R291
R292
R293
R601
R602
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R811
R821
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R832
R842
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R864
R865
R866
R871
R872
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R881
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R883
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R886
R887
R890
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R892
R893
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R897
B601
B602
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B619
B621
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B623
B624
B625
B626
B627
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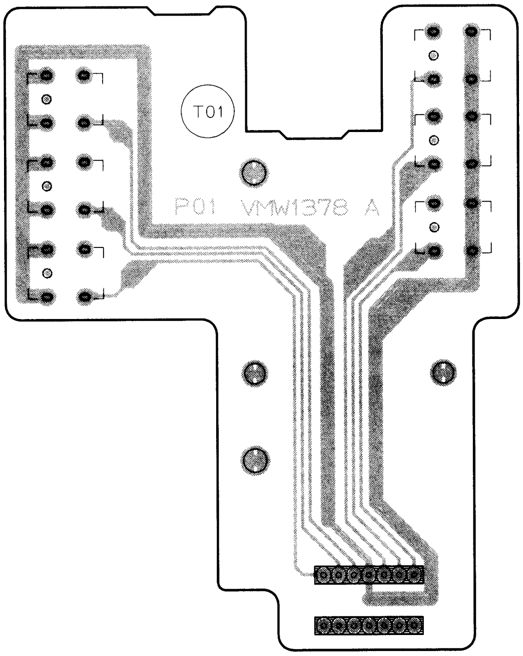
B631
B632
B633
B634
IOPT-6
IOPT-7
IRVMODE1

5

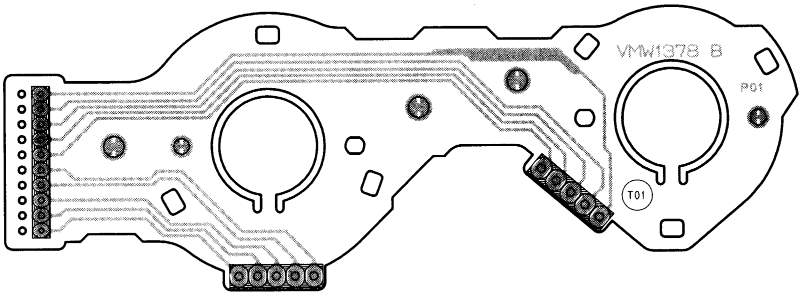
■ CD Tray Section Switch Board


T01
P01
VMW1378 A

4

3

■ Cam Switch Board

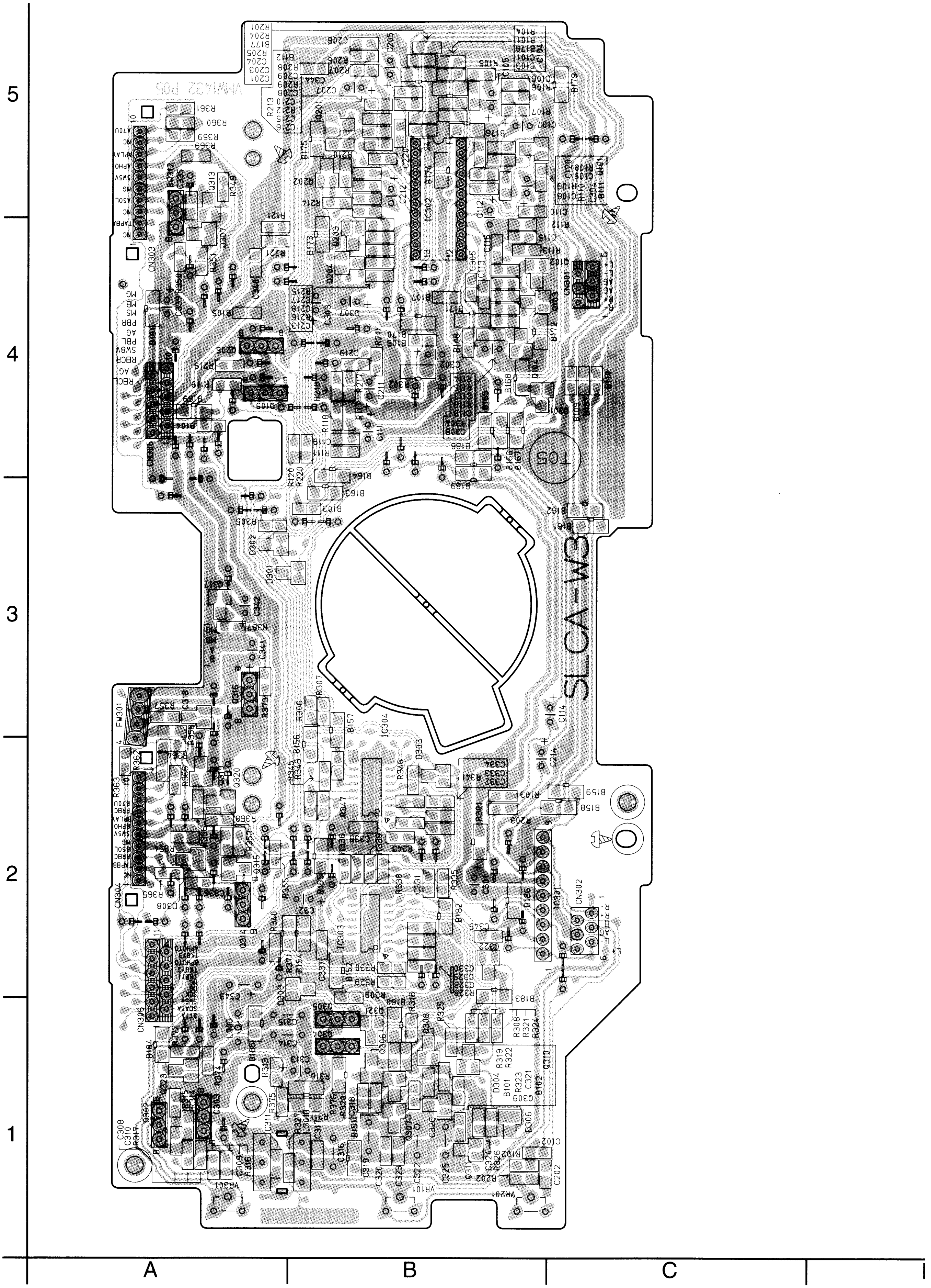

VMW1378 B
P01
T01

2

1

A
B
C

■ Cassette Mechanism Board


5
4
3
2
1
A
B
C
SLCA-W3
T05
CN302
CN303
CN304
CN305
CN306
IC301
IC302
IC303
IC304
FW301
VR101
VR201
VR301

PARTS LIST

[CA-MXJ70]
[MX-J70]
[CA-MXJ75R]
[MX-J75R]
[MX-J76]

* All printed circuit boards and its assemblies are not available as service parts.

Area Suffix(CA-MXJ70)

A ------------------------ Australia
UP -------------------------- Korea
US -------------------- Singapore
UT ------------------------- Taiwan
UY ---------------------- Argentina
UX ------------------ Saudi Arabia
U -------------------- Other Areas

Area Suffix(MX-J70)

J ---------------------------- U.S.A.
C ------------------------ Canada

Area Suffix(CA-MXJ75R)

B ------------------------------ U.K.
E ---------- Continental Europe
EN ----------- Northern Europe
EV ------------- Eastern Europe

Area Suffix(MX-J75R)

EE --------- Russian Federation

Area Suffix(MX-J76)

C ------------------------ Canada

- Contents -

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Cassette Mechanism Ass'y and Parts List -- 3-10
Electrical Parts List -- 3-12
Packing Materials and Accessories Parts List -------------------------------------- 3-29

■ PARTS LIST (General Assembly)

BLOCK NO M1MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	GV10010-016A	FRONT PANEL	1	MX-J70	J C
		GV10010-017A	FRONT PANEL	1	CA-MXJ70	U US UT UP UX UY
		GV10010-018A	FRONT PANEL	1	MX-J76	C
		GV10010-018A	FRONT PANEL	1	MX-J75R	EE
		GV10010-018A	FRONT PANEL	1	CA-MXJ75R	B E EN EV
		GV10010-018A	FRONT PANEL	1	CA-MXJ70	A
	2	E75896-001	SPACER	2		
	3	VJD5429-001	JVC MARK	1		
	4	GV40016-001A	STANDBY INDICATOR	1		
	5	GV30047-008A	CD BUTTON ASSY	1		
	6	GV30029-006A	POWER BUTTON	1	CA-MXJ70	U US UT UP UX UY A
		GV30029-006A	POWER BUTTON	1	CA-MXJ75R	B E EN EV
		GV30029-006A	POWER BUTTON	1	MX-J75R	EE
		GV30029-007A	POWER BUTTON	1	MX-J70	J C
		GV30029-007A	POWER BUTTON	1	MX-J76	C
	7	GV30045-004A	PUSH BUTTON	1		
	8	GV20033-001A	SOURCE BUTTON (A)	1		
	9	GV20034-001A	SOURCE BUTTON (B)	1		
	10	QYSDSF2608Z	SCREW	3		
	11	QYSDSF2608Z	SCREW	4		
	12	QYSDSF2608Z	SCREW	6		
	13	GV30030-001A	STAY BRACKET	1		
	14	GV40030-001A	PHONE BRACKET	1		
	15	FMYH4004-001	RIVET	1		
	16	QYSDSF2608Z	SCREW	2		
	17	QYSBST3006Z	TH TAP SCREW	1		
	18	QYSDSF2608Z	SCREW	4		
	19	QYSDSF2608Z	SCREW	2		
	20	QYSDSF2608Z	SCREW	3		
	21	GV40043-001A	VOLUME SHEET	1		
	22	GV20022-004A	CASSETTE HOLDER	1		
	23	GV20023-004A	CASSETTE HOLDER	1		
	24	GV20024-001A	CASSETTE LENS	1		
	25	GV20025-001A	CASSETTE LENS	1		
	26	GV30026-004A	EJECT BUTTON	1		
	27	GV30027-004A	EJECT BUTTON	1		
	28	FMKW4009-001	HOLDER SPRING (A)	1		
	29	FMKW4010-001	HOLDER SPRING (B)	1		
	30	FMKW4011-001	LEVER SPRING	1		
	31	FMKS3002-003	EJECT LEVER (A)	1		
	32	FMKS3003-003	EJECT LEVER (B)	1		
	33	GV40034-001A	DAMPER	2		
	34	VKY4180-401	CASSETTE SPRING	4		
	35	GV10014-003A	MOVING CASE	1		
	36	GV30039-004A	MOVING PANEL (A)	1	CA-MXJ70	U US UT UP UX UY A
		GV30039-004A	MOVING PANEL (A)	1	MX-J75	EE
		GV30039-004A	MOVING PANEL (A)	1	MX-J70	J C
		GV30039-004A	MOVING PANEL (A)	1	CA-MXJ75R	B E EN EV
		GV30039-006A	MOVING PANEL (A)	1	MX-J76	C
	37	GV30040-015A	CONTROL SHEET	1	CA-MXJ70	U US UT UP UX UY A
		GV30040-015A	CONTROL SHEET	1	MX-J70	J C
		GV30040-018A	CONTROL SHEET	1	CA-MXJ75R	B E EN EV

■ PARTS LIST (General Assembly)

BLOCK NO M1MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	37	GV30040-018A	CONTROL SHEET	1	MX-J75	EE
		GV30040-015A	CONTROL SHEET	1	MX-J76	C
	38	GV30041-005A	CONTROL BUTTON ASSY	1	CA-MXJ70	U US UT UP UX UY A
		GV30041-005A	CONTROL BUTTON ASSY	1	MX-J70	J C
		GV30041-007A	CONTROL BUTTON ASSY	1	CA-MXJ75R	B E EN EV
		GV30041-007A	CONTROL BUTTON ASSY	1	MX-J75	EE
		GV30041-005A	CONTROL BUTTON ASSY	1	MX-J76	C
	39	QYSDSF2608Z	SCREW	2		
	40	GV30042-002A	PANEL BRACKET	1		
	41	GV40028-001A	PANEL HOLDER (L)	1		
	42	GV40028-002A	PANEL HOLDER (R)	1		
	43	QYSDSF2608Z	SCREW	6		
	45	QYSBST2606Z	T.SCREW	3		
	46	GV30043-004A	MOVING PANEL (B)	1	CA-MXJ70	U US UT UP UX UY A
		GV30043-004A	MOVING PANEL (B)	1	MX-J70	J C
		GV30043-004A	MOVING PANEL (B)	1	CA-MXJ75R	B E EN EV
		GV30043-004A	MOVING PANEL (B)	1	MX-J75	EE
		GV30043-005A	MOVING PANEL (B)	1	MX-J76	C
	47	VKZ4341-204	SPECIAL SCREW	2		
	48	QYSDSF2608Z	SCREW	2		
	49	QYSDSF2608Z	SCREW	1		
	50	GV30054-001A	P.W.BOARD HOLDER	1		
	51	QYSSSF3012Z	TAPPING SCREW	4		
	52	-------------	CASSETTE MECHA	1		
	53	FMKL4012-004	EJECT SAFETY(A)	1		
	54	FMKL4013-001	EJECT SAFETY(B)	1		
	55	FMKW4007-001	SPRING A	1		
	56	FMKW4008-001	SPRING B	1		
	57	GV20030-001A	HOLDER BRACKET	1		
	58	QYSBSG3010E	T.SCREW	2		
	59	QYSBSG3010E	T.SCREW	2		
	60	QYSBSG3010Z	T.SCREW	4		
	61	QYSBSF3010Z	SCREW	4		
	62	------------	CD CHANGER	1		
	63	E309662-001	DISC STOPPER	1		
	64	QYSBSF3008Z	SCREW	1		
	65	FMKL4008-001	LOD STOPPER	1	MX-J70	J C
		FMKL4008-001	LOD STOPPER	1	MX-J76	C
	66	QYSBSF3008Z	SCREW	1	MX-J70	J C
		QYSBSF3008Z	SCREW	1	MX-J76	C
	67	GV10011-001A	CHASSIS BASE	1		
	68	E75896-006	FELT SPACER	2		
	69	GV30044-002A	HEAT SINK	1		
	70	QYSBSG3014E	T.SCREW	3		
	71	QYSBSG3020E	TAPPING SCREW	2		
	72	GV40029-001A	LEAF SPRING	1		
	73	QYSDSTL4008Z	SPECIAL SCREW	4		
	74	LE30469-001A	SHIELD PLATE	1		
	75	QYSBSGG3008E	T.SCREW	1		
⚠	76	EMP7000-200	POWER CORD	1	CA-MXJ70	UP
⚠		QMPD220-200-JD	POWER CORD	1	MX-J70	J C
⚠		QMPD220-200-JD	POWER CORD	1	MX-J76	C

PARTS LIST (General Assembly)

BLOCK NO M1MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
⚠	76	QMPG020-244-JC	POWER CORD	1	CA-MXJ70	A
⚠		QMPK090-205-JN	POWER CORD	1	CA-MXJ75R	E EN EV
⚠		QMPK090-205-JN	POWER CORD	1	MX-J75R	EE
⚠		QMPK090-205-JN	POWER CORD	1	CA-MXJ70	U US
⚠		QMPN090-200-JC	POWER CORD	1	CA-MXJ75R	B
⚠		QMPR110-200-JN	POWER CORD	1	CA-MXJ70	UT UX
⚠		QMPR160-200-JC	POWER CORD	1	CA-MXJ70	UY
⚠	77	QZW0033-001	CORD STOPPER	1		
	78	VKZ4001-110S	WIRE HOLDER	1		
⚠	79	NQT0250-003	POWER TRANSFORMER	1	CA-MXJ70	U UP US UT UX UY
⚠		QQT0250-001	POWER TRANSFORMER	1	MX-J70	J C
⚠		QQT0250-002	POWER TRANSFORMER	1	CA-MXJ70	A
⚠		QQT0250-002	POWER TRANSFORMER	1	CA-MXJ75R	E EN EV B
⚠		QQT0250-002	POWER TRANSFORMER	1	MX-J75R	EE
⚠		QQT0250-001	POWER TRANSFORMER	1	MX-J76	C
⚠	80	QMF51E2-1R25-J1	FUSE (F001)	1	CA-MXJ70	A UP
⚠		QMF51E2-1R25-J1	FUSE (F001)	1	CA-MXJ75R	B E EN EV
⚠		QMF51E2-1R25-J1	FUSE (F001)	1	MX-J75R	EE
⚠		QMF51E2-2R5-J1	FUSE (F001)	1	CA-MXJ70	U US UT UX UY
⚠		QMF51U1-4R0-J1	FUSE (F001)	1	MX-J70	J C
⚠		QMF51U1-4R0-J1	FUSE (F001)	1	MX-J76	C
⚠	81	QMF51E2-1R25-J1	FUSE (F003)	1	CA-MXJ70	U US UT UX UY
⚠	82	QMF51E2-3R15-J1	FUSE (F101)	1	CA-MXJ70	U US UT UX UY UP A
⚠		QMF51U1-5R0-J1	FUSE (F101)	1	MX-J70	J C
⚠		QMF51U1-5R0-J1	FUSE (F101)	1	MX-J76	C
⚠		QMF51E2-3R15-J1	FUSE (F101)	1	MX-J75R	EE
⚠		QMF51E2-2R15-J1	FUSE (F101)	1	CA-MXJ75R	B E EN EV
⚠	83	QMF51E2-3R15-J1	FUSE (F102)	1	CA-MXJ70	U US UT UX UY UP A
⚠		QMF51E2-3R15-J1	FUSE (F102)	1	CA-MXJ75R	E EN EV B
⚠		QMF51U1-5RO-J1	FUSE (F102)	1	MX-J70	J C
⚠		QMF51E2-3R15-J1	FUSE (F102)	1	MX-J75R	EE
⚠		QMF51U1-5RO-J1	FUSE (F102)	1	MX-J76	C
	84	QUQ412-1014CJ	FLAT WIRE	1		
	85	QUQ412-1115DJ	FLAT WIRE	1		
	86	QUQ110-0915BJ	FLAT WIRE	1		
	87	QUQ412-1012CJ	FLAT WIRE	1		
	88	QUQ412-2109CJ	FLAT WIRE	1		
	89	QUQ412-2109CJ	FLAT WIRE	1		
	90	QUQ412-1712CJ	FLAT WIRE	1		
	91	QUQ110-1916BJ	FLAT WIRE	1		
	92	QUQ412-2112CJ	FLAT WIRE	1		
	93	QUQ412-2308CJ	FLAT WIRE	1		
	94	GV10013-052A	REAR PANEL	1	MX-J70	C
		GV10013-024A	REAR PANEL	1	MX-J70	J
		GV10013-025A	REAR PANEL	1	CA-MXJ70	U US UX UY
		GV10013-026A	REAR PANEL	1	CA-MXJ70	A
		GV10013-028A	REAR PANEL	1	CA-MXJ70	UP
		GV10013-030A	REAR PANEL	1	CA-MXJ75R	B E EN EV
		GV10013-032A	REAR PANEL	1	CA-MXJ75R	EE
		GV10013-042A	REAR PANEL	1	CA-MXJ70	UT
		GV10013-053A	REAR PANEL	1	MX-J76	C
	95	E207356-002SM	REAR COVER	1		

■ PARTS LIST (General Assembly)

BLOCK NO M1MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	96	QYSBSG3008Z	T.SCREW	2		
	97	QYSBSGY3008E	SPECIAL SCREW	1		
	98	QYSBSGY3008E	SPECIAL SCREW	1		
	99	QYSBSGY3008E	SPECIAL SCREW	1		
	100	QYSBSGY3008E	SPECIAL SCREW	4		
	101	QYSBSGY3008E	SPECIAL SCREW	2		
	102	QYSBSGY3008E	SPECIAL SCREW	2		
	103	QYSBSGY3008E	SPECIAL SCREW	2		
	104	QYSBSGY3008E	SPECIAL SCREW	2		
	105	QYSBSGY3008E	SPECIAL SCREW	2	CA-MXJ70	U US UT UX UY
	106	QYSBSGY3008E	SPECIAL SCREW	1		
	107	QYSBSGY3008E	SPECIAL SCREW	1		
	108	QYSBSGY3008E	SPECIAL SCREW	1	CA-MXJ70	U US UT UX UY UP A
		QYSBSGY3008E	SPECIAL SCREW	1	MX-J70	J C
		QYSBSGY3008E	SPECIAL SCREW	1	CA-MXJ75R	B E EN EV
		QYSBSGY3008E	SPECIAL SCREW	1	MX-J75R	EE
	109	GV10012-001A/S/	METAL COVER	1		
	110	QYSDSG3006M	TAPPING SCREW	2		
	111	QYSBSGY3008E	SPECIAL SCREW	6		
	112	GV30033-003A	CD FITTING	1	CA-MXJ70	U US UT UX UY UP A
		GV30033-003A	CD FITTING	1	MX-J70	J C
		GV30033-003A	CD FITTING	1	CA-MXJ75R	B E EN EV
		GV30033-003A	CD FITTING	1	MX-J75R	EE
		GV30033-004A	CD FITTING	1	MX-J76	C
	113	GV30034-002A	CD FITTING	1	CA-MXJ70	U US UT UX UY UP A
		GV30034-002A	CD FITTING	1	MX-J70	J C
		GV30034-002A	CD FITTING	1	CA-MXJ75R	B E EN EV
		GV30034-002A	CD FITTING	1	MX-J75R	EE
		GV30034-003A	CD FITTING	1	MX-J76	C
	114	GV30035-003A	CD FITTING	1	CA-MXJ70	U US UT UX UY UP A
		GV30035-003A	CD FITTING	1	MX-J70	J C
		GV30035-003A	CD FITTING	1	CA-MXJ75R	B E EN EV
		GV30035-003A	CD FITTING	1	MX-J75R	EE
		GV30035-004A	CD FITTING	1	MX-J76	C
	115	GV30028-004A	VOLUME KNOB	1		
	116	GV20026-007A	WINDOW SCREEN	1	CA-MXJ70	U US UT UX UY UP A
		GV20026-007A	WINDOW SCREEN	1	MX-J70	J C
		GV20026-008A	WINDOW SCREEN	1	MX-J75R	EE
		GV20026-008A	WINDOW SCREEN	1	CA-MXJ75R	B E EN EV
		GV20026-009A	WINDOW SCREEN	1	MX-J76	C
	117	GV40017-003A	MIC VOLUME KNOB	1	CA-MXJ70	U US UT UX UY UP
	120	GV40048-001A	PROTECT SHEET	1	CA-MXJ70	U US UT UX UY UP A
		GV40048-001A	PROTECT SHEET	1	MX-J70	J C
		GV40048-001A	PROTECT SHEET	1	CA-MXJ75R	B E EN EV
		GV40048-001A	PROTECT SHEET	1	MX-J75R	EE
		GV40048-001A	PROTECT SHEET	1	MX-J76	C
	121	GV40049-001A	PROTECT SHEET	1	MX-J70	J C
		GV40049-001A	PROTECT SHEET	1	MX-J76	C
	122	FMYSH103-003	SPACER	1		
	123	FMKL4007-001	HEAT SINK BRACKET	1		
	124	FMPK4003-001T	MICA SHEET	1		
	125	QYSBSGY3008E	SPECIAL SCREW	1		

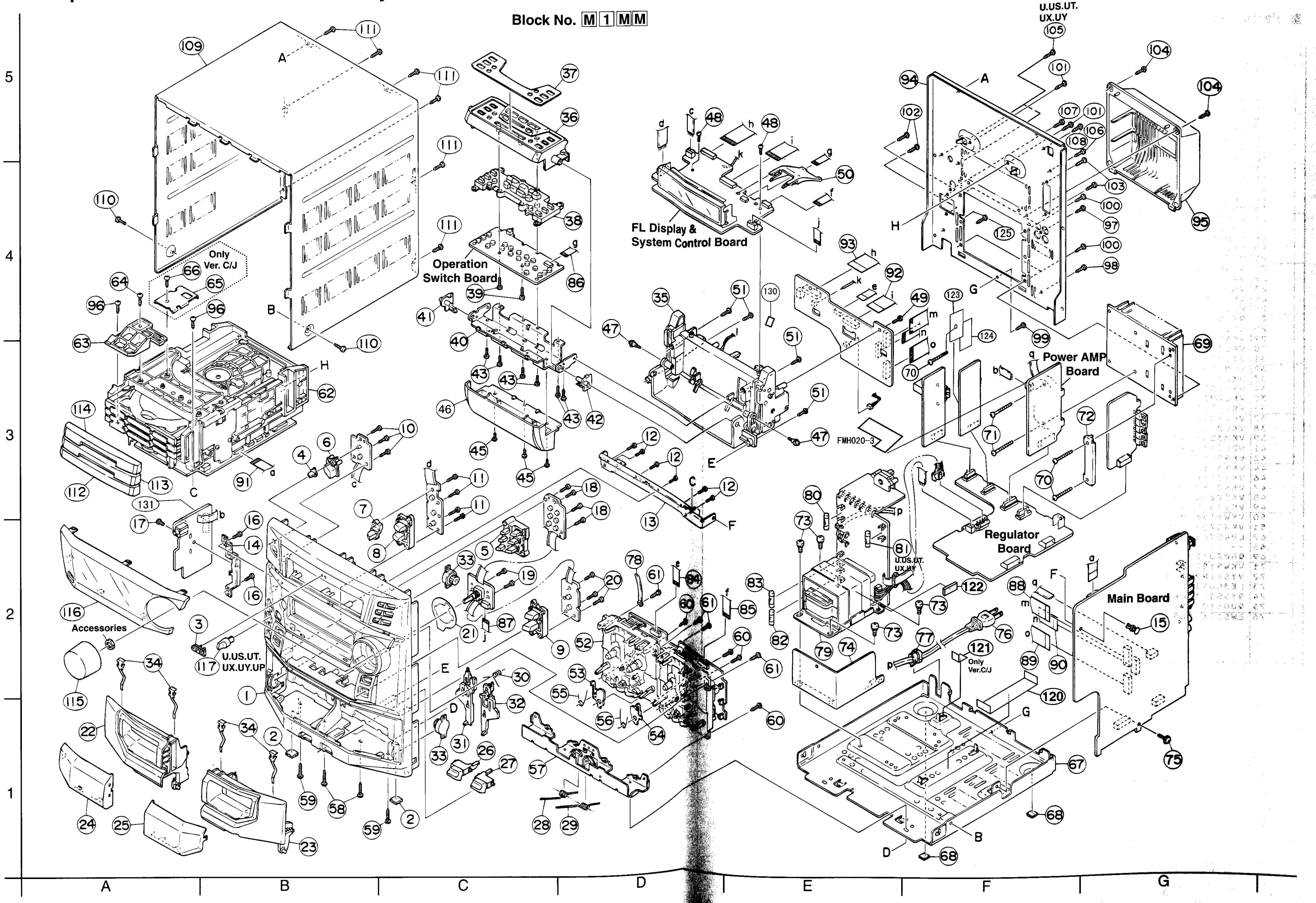
■ PARTS LIST (General Assembly)

BLOCK NO M1MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	130	GV40059-001A	SPACER	1	#201~#7200	MX-J70 J
		GV40059-001A	SPACER	1	#201~#1200	MX-J70 C
		GV40059-001A	SPACER	1	#201~#3200	CA-MXJ70 U
		GV40059-001A	SPACER	1	#201~#1200	MX-J70 C
		GV40059-001A	SPACER	1	#201~#3700	CA-MXJ75R B
		GV40059-001A	SPACER	1	#201~#5800	CA-MXJ75R E
		GV40059-001A	SPACER	1	#201~#700	CA-MXJ75R EN
	131	FMYSH103-004	SPACER	1	CA-MXJ70	U US UT UX UY UP

Exploded View of General Assembly and Parts List

Block No. M 1 M M



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FL Display & System Control Board
Power AMP Board
Regulator Board
Main Board
Accessories
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U.US.UT. UX.UY.UP
U.US.UT. UX.UY
Only Ver.C/J
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■ Parts List (CD Changer)

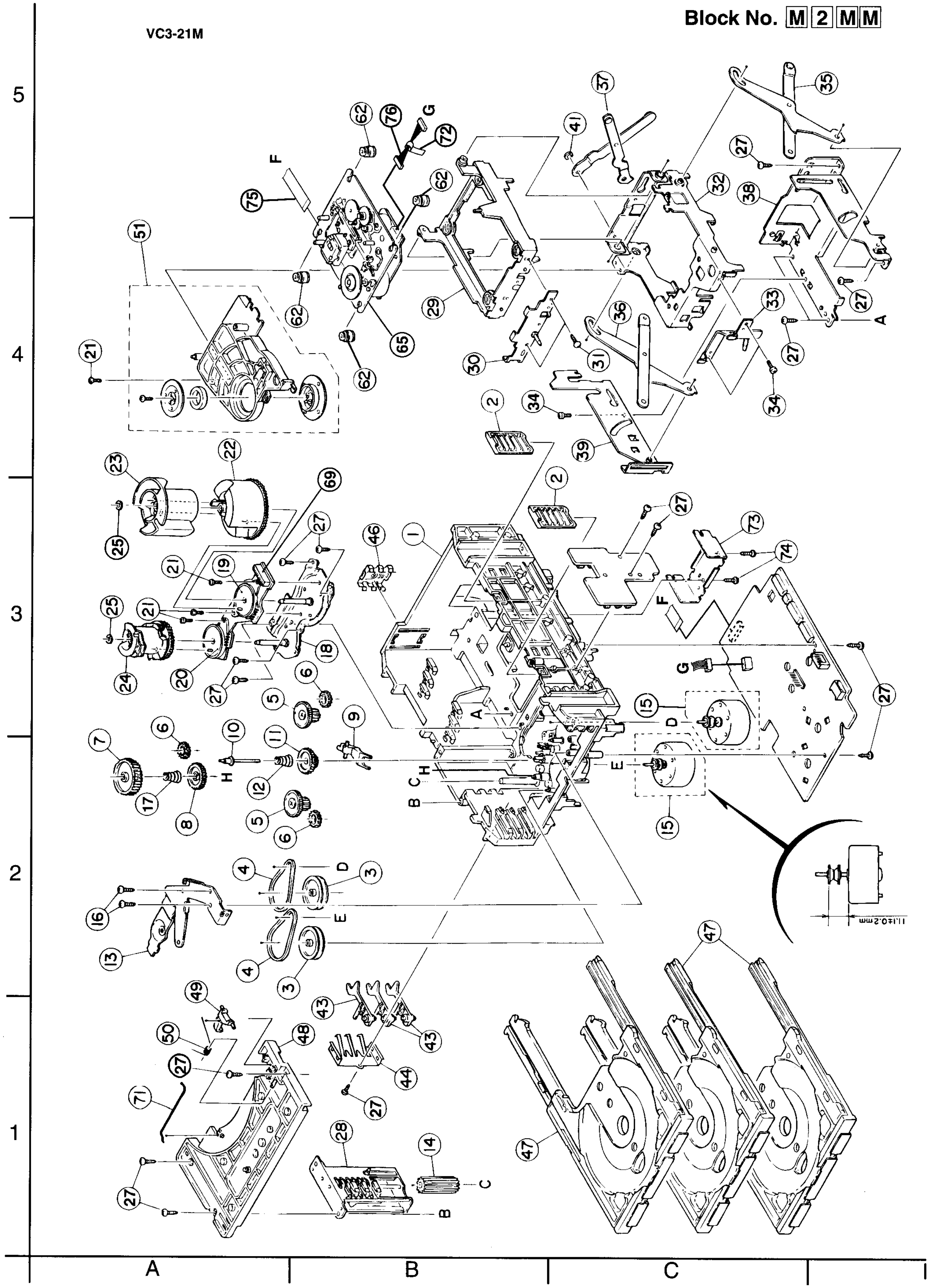
BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKS1144-003	CHASSIS		1		
	2	VKS3698-003	TRAY GUIDE		2		
	3	VKS5532-003	PULLEY GEAR		2		
	4	VKB3000-164	BELT		2		
	5	VKS5505-003	GEAR B		2		
	6	VKS5506-002	GEAR C		3		
	7	VKS5507-002	CROSS GEAR U		1		
	8	VKS5508-002	CROSS GEAR L		1		
	9	VKS5510-003	SELECT LEVER		1		
	10	VKH5769-001	S.G.SHAFT		1		
	11	VKS5511-002	SELECT GEAR		1		
	12	VKW5155-003	COMP.SPRING	FOR SELECT GEAR	1		
	13	VKM3846-002	GEAR BRACKET		1		
	14	VKS5509-002MM	CYLINDER GEAR		1		
	15	MSN5D257A-SA2	D.C.MOTOR ASS'Y		2		
	16	QYSPSPD2616Z	SCREW	FOR MOTOR	2		
	17	LV40612-001A	COMP.SPRING		1		
	18	VKM3825-00AMM	C.G.BASE ASS'Y		1		
	19	VKZ3172-00ASS	CAM SW. R ASS'Y		1		
	20	VKZ3173-00ASS	CAM SW. L ASS'Y		1		
	21	QYSPST2606Z	SCREW		4		
	22	VKS2263-002MM	CAM R1		1		
	23	VKS2264-002MM	CAM R2		1		
	24	VKS2265-002MM	CAM GEAR L		1		
	25	WDL316050MM	SLIT WASHER		2		
	27	QYSBSF2608Z	T.SCREW		16		
	28	VKS3702-00FMM	DRIVE UNIT		1		
	29	VKS2247-004	MECHA HOLDER A		1		
	30	VKL7767-00B	BRACKET ASS'Y		1		
	31	QYSBSF2606Z	SCREW	FOR BRACKET	2		
	32	VKM3860-00A	M.HOLDER B AS'Y		1		
	33	VKL7802-00C	M.HOLDER C AS'Y		1		
	34	QYSDST2604Z	SCREW		3		
	35	VKL7810-00A	LIFTER ASS'Y R		1		
	36	VKL7811-00A	LIFTER ASS'Y L		1		
	37	VKL7812-00A	LIFTER ASS'Y H		1		
	38	VKL2732-002	LIFTER BASE		1		
	39	VKM3857-001	LIFTER BRACKET		1		
	41	WDL266035-2	SLIT WASHER		1		
	43	VKS5514-002MM	LOCK LEVER		3		
	44	VKY3133-002MM	RETURN SPRING		1		
	46	VKY3134-003MM	CLICK SPRING		1		
	47	VKS2252-00E	TRAY ASS'Y		3		
	48	VKS2250-003	TOP BRACKET		1		
	49	VKS5515-002	S.TRAY STOPPER		1		
	50	VKW5156-004	TORSION SPRING		1		
	51	VKS3703-00F	CLAMPER ASS'Y		1		
	62	LV40761-003A	INSULATOR		4		
	65	--------------	CD MECHA		1		
	69	QGB2012J1-10	CONNECTOR		1		
	71	VKW5187-001	ROD		1		
	72	VYSA1R2-033	SPACER		1		
	73	LE30611-001A	C.B HOLDER	FOR CD CB	1		
	74	QYSBSF3008Z	SCREW	FOR HOLDER	2		
	75	QUQ610-1509AJ	FLAT WIRE	TRAVERSE 15	1		
	76	EWS176-008	FLAT WIRE	TRAVERSE 6	1		

CD Changer Mechanism Ass'y and Parts List

Block No. M 2 M M

VC3-21M



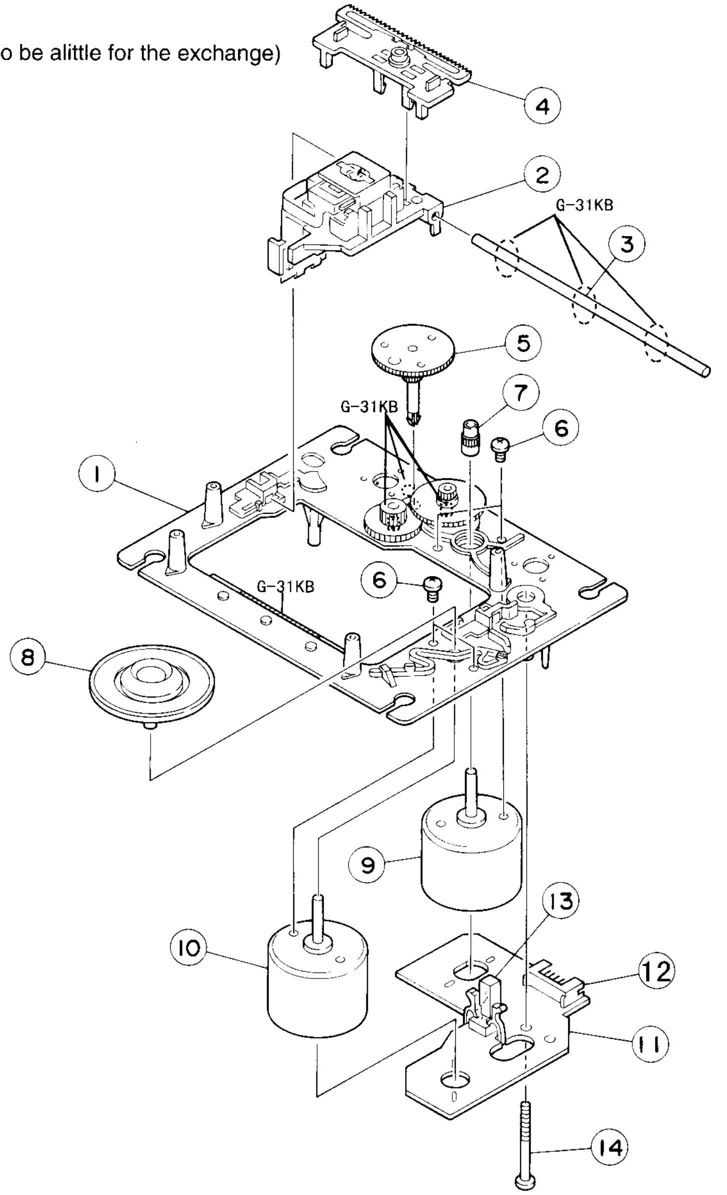
CD Mechanism Ass'y and Parts List

■ Grease Point

Block No. M 3 M M

No. EXL-M7TB

G-31KB
(Grease to apply have to be alittle for the exchange)

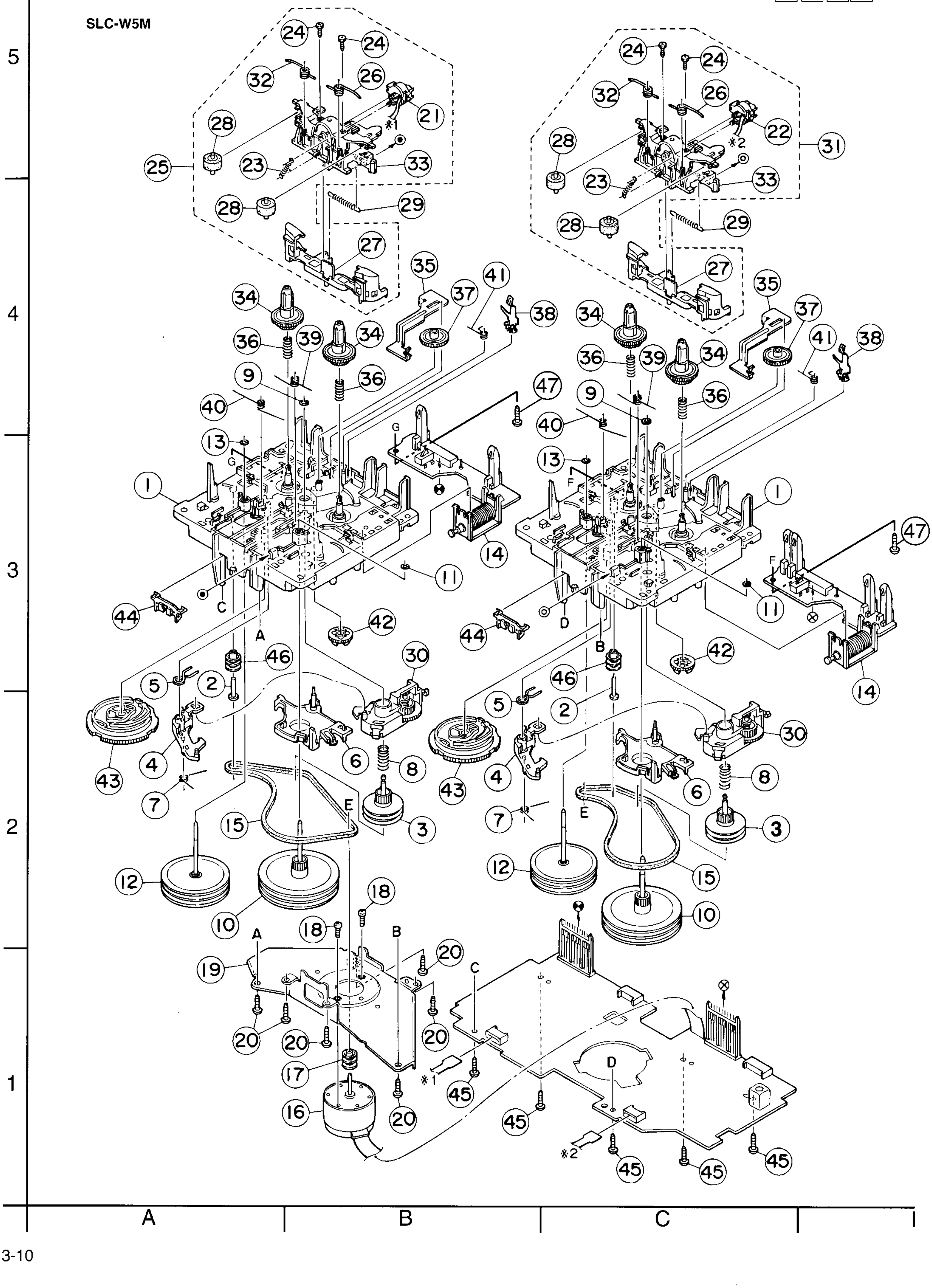


■CD Mechanism Assembly Parts List

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	1	E102731-221SMKP	MECHA. BASE ASSY	1		
	2	OPTIMA-7B	OPTICAL PICK UP	1		
	3	E406777-002SMKP	CD SHAFT	1		
	4	HQN300031-001PK	CD RACK	1		
	5	E307745-441SMKP	MECHA GEAR	1		
	6	QYSDSP2003N	SCREW	4		
	7	E406750-441SM	PINION GEAR	1		
	8	EPB309173PKA	TURN TABLE	1		
	9	E406784-001	FEED MOTOR	1		
	10	E406783-001	SPPINDLE MOTOR	1		
	11	EMW10190-441	P. C. BOARD	1		
	12	QGA2001F1-06	6P PLUG ASSY	1		
	13	QSW0506-001	LEAF SWITCH	1		
	14	E75832-221SS	SCREW	1		

Cassette Mechanism Ass'y and Parts List

Block No. M 4 M M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■ Parts List (Cassette Mechanism)

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	VKS1165-00H	CHASSIS B.ASS'Y		2		
	2	VKH5786-002	SHAFT		2		
	3	VKS5603-00D	MAIN PULLEY ASY		2		
	4	VKS3785-001MM	FR ARM		2		
	5	VKW5284-002	SWING SPRING		2		
	6	VKS2278-003	TRIGGER ARM		2		
	7	VKW5301-001	FR SPRING		2		
	8	VKW5266-001	ELEVATOR SPRING		2		
	9	WDL214025	WASHER		2		
	10	VKF3205-00B	F.WHEEL ASSY(R)		2		
	11	WDL183425	SLIT WASHER		2		
	12	VKF3207-00B	F.WHEEL ASSY(L)		2		
	13	WDL173525-6	SLIT WASHER		2		
	14	VKZ3174-00A	DC SOLENOID		2		
	15	VKB3000-182	CAPSTAN BELT(B)		2		
	16	MSI-5U2LWA	D.C.MOTOR ASS'Y		1		
	17	VKR4761-001	MOTOR PULLEY		1		
	18	QYSPSP2604Z	SCREW		2		
	19	VKM3907-001	JOINT BRACKET		1		
	20	QYSBSF2608Z	T.SCREW		6		
	21	VGH0424-037	P.B.HEAD		1		
	22	VGH0425-544	R/P&E HEAD		1		
	23	VKW5302-001	HEAD SPRING		2		
	24	VKZ4730-001	SPECIAL SCREW		4		
	25	VKS2279-00C	HEAD MOUNT ASSY		1		
	26	VKW5299-002	PIN ROL.SP.(R)		2		
	27	VKS2277-005	DIRECTION LEVER		2		
	28	VKP4233-00A	PINCH ROL. ASSY		4		
	29	VKW5285-001	RETURN SPRING		2		
	30	VKS3786-00G	CLUTCH ASS'Y		2		
	31	VKS2275-00C	HEAD MOUNT ASSY		1		
	32	VKW5300-002	PIN ROL.SP.(L)		2		
	33	VKS1167-001	HEAD MOUNT BASE		2		
	34	VKS2274-002	REEL GEAR		4		
	35	VKM3906-003	PLAY SW LEVER		2		
	36	VKW5286-002	B.T. SPRING		4		
	37	VKS5559-001	PLAY IDLE GEAR		2		
	38	VKY3149-002	CASSETTE SP.		2		
	39	VKW5279-001	HEAD BASE SP(R)		2		
	40	VKW5280-001	HEAD BASE SP(L)		2		
	41	VKW5296-001	EARTH SPRING		2		
	42	VKS5597-00A	FR GEAR ASS'Y		2		
	43	VKS1166-003	CONTROL CAM		2		
	44	VKS5577-001	FPC HOLDER		2		
	45	QYSBSF2608Z	T.SCREW	FOR P.W.B.	5		
	46	VKR4749-001	IDLE PULLEY		2		
	47	QYSBSF2006Z	SCREW		2		

Electrical Parts List

■ Electrical Parts List(Power Amp Board)

BLOCK NO 01

⚠	Item	Parts Number	Description	Area
		I.C.S		
	IC701	STK411-210E	I.C(HYBRID)	
	IC781	TDA7295	I.C(M)	
	IC782	TDA7295	I.C(M)	
		DIODES		
⚠	D201	1N5402M-20	DIODE	
⚠	D202	1N5402M-20	DIODE	
⚠	D203	1N5402M-20	DIODE	
⚠	D204	1N5402M-20	DIODE	
⚠	D211	30DF2-FC	DIODE	
⚠	D212	30DF2-FC	DIODE	
⚠	D213	30DF2-FC	DIODE	
⚠	D214	30DF2-FC	DIODE	
⚠	D217	1SR35-100A-T5	SI DIODE	
⚠	D218	1SR35-100A-T5	SI DIODE	
	D219	MTZJ33C-T2	Z DIODE I M	
	D220	MTZJ9.1C-T2	ZENER DIODE	
	D221	MTZJ5.1B-T2	ZENER DIODE	
	D223	1SS133-T2	SI.DIODE	
	D224	1SS133-T2	SI.DIODE	
	D225	1SS133-T2	SI.DIODE	
⚠	D227	1SR35-100A-T5	SI DIODE	
⚠	D231	RN1Z-F1	SI DIODE	
⚠	D232	RN1Z-F1	SI DIODE	
⚠	D233	RN1Z-F1	SI DIODE	
⚠	D234	RN1Z-F1	SI DIODE	
	D360	MTZJ5.1B-T2	ZENER DIODE	
	D361	MTZJ11C-T2	ZENER DIODE	
	D362	MTZJ6.8C-T2	ZENER DIODE	
	D365	MTZJ9.1B-T2	ZENER DIODE	
	D366	MTZJ11C-T2	ZENER DIODE	
	D367	MTZJ10C-T2	ZENER DIODE	
	D368	MTZJ11C-T2	ZENER DIODE	
	D369	MTZJ10C-T2	ZENER DIODE	
	D370	MTZJ11C-T2	ZENER DIODE	
	D703	MTZJ8.2C-T2	ZENER DIODE	
	D704	MTZJ8.2C-T2	ZENER DIODE	
	D719	1SS133-T2	SI.DIODE	
	D720	1SS133-T2	SI.DIODE	
	D721	MTZJ8.2C-T2	ZENER DIODE	
	D722	MTZJ8.2C-T2	ZENER DIODE	
	D723	MTZJ33C-T2	Z DIODE I M	
	D724	MTZJ33C-T2	Z DIODE I M	
	D728	1SS133-T2	SI.DIODE	
	D789	1SS133-T2	SI.DIODE	
	D790	1SS133-T2	SI.DIODE	
		TRANSISTORS		
	Q201	2SB1274/RS/	TRANSISTOR	
	Q203	KRC107M-T	DIGITAL TRANSISTOR	
	Q204	KRC107M-T	DIGITAL TRANSISTOR	
	Q205	KRC107M-T	DIGITAL TRANSISTOR	
	Q240	KTC3199/GL/-T	TRANSISTOR	
	Q241	KTC3199/GL/-T	TRANSISTOR	
	Q242	KTC3199/GL/-T	TRANSISTOR	
⚠	Q360	2SD2061/EF/	SI.TRANSISTOR	
	Q361	KTC3199/GL/-T	TRANSISTOR	
	Q362	KTC3199/GL/-T	TRANSISTOR	
⚠	Q365	2SD2061/EF/	SI.TRANSISTOR	
⚠	Q366	2SD2061/EF/	SI.TRANSISTOR	
	Q367	KTA1267/YG/-T	TRANSISTOR	
	Q368	KTC3199/GL/-T	TRANSISTOR	
⚠	Q369	2SD2061/EF/	SI.TRANSISTOR	
	Q370	KTC3199/GL/-T	TRANSISTOR	
⚠	Q371	2SB1565/EF/	SI.TRANSISTOR	
	Q373	KRA104M-T	DIGITAL TRANSISTOR	
	Q374	KRC104M-T	DIGITAL TRANSISTOR	
	Q375	KRC104M-T	DIGITAL TRANSISTOR	
	Q376	KRA104M-T	DIGITAL TRANSISTOR	
	Q701	2SA1038S/SE/-T	SI.TRANSISTOR	
	Q702	2SA1038S/SE/-T	SI.TRANSISTOR	
	Q726	2SC2389S/SE/-T	SI.TRANSISTOR	
	Q727	2SA1038S/SE/-T	SI.TRANSISTOR	
	Q728	KTC3199/GL/-T	TRANSISTOR	
	Q733	2SC3576-JVC-T	SI.TRANSISTOR	
	Q734	2SC3576-JVC-T	SI.TRANSISTOR	
	Q735	2SC3576-JVC-T	SI.TRANSISTOR	
	Q736	2SC3576-JVC-T	SI.TRANSISTOR	
	Q737	KRA111M-T	DIGITAL TRANSISTOR	
	Q758	2SA1038S/S/-T	TRANSISTOR	
	Q781	2SA1038S/SE/-T	SI.TRANSISTOR	
	Q782	2SA1038S/SE/-T	SI.TRANSISTOR	
		CAPACITORS		
	C201	QFV82AJ-104	0.1MF 100V THIN FILM CA	
	C202	QFV82AJ-104	0.1MF 100V THIN FILM CA	
	C203	QFV82AJ-104	0.1MF 100V THIN FILM CA	
⚠	C204	QEZ0461-478	4700MF E CAP.	
⚠	C205	QEZ0461-478	4700MF E CAP.	
	C211	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C212	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C213	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
⚠	C214	QETM1VM-228J7	2200MF 35V E.CAP.	
⚠	C215	QETM1VM-228J7	2200MF 35V E.CAP.	
	C216	QETN1VM-107Z	100MF 35V E.CAP.	
	C217	QETN1JM-476Z	47MF 63V E.CAP.	
	C218	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C219	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C220	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C221	EETB1HM-475E	4.7MF 50V E.CAP.	
	C222	EETB1HM-475E	4.7MF 50V E.CAP.	
	C223	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C224	EETB1HM-105E	1MF 50V E.CAP.	
	C233	QFLM1HJ-103Z	0.01MF 50V M CAP.	A B C E EE EN EV J
		QFVJ1HJ-224Z	0.22MF 50V CAP.	U UP US UT UX UY
	C238	QFLM1HJ-223Z	0.022MF 50V M CAP.	B E EE EN EV
	C239	QFLM1HJ-223Z	0.022MF 50V M CAP.	B E EE EN EV
	C253	QETM1EM-108	1000MF 25V E CAP.	
	C360	EETC1EM-226ZE	22MF 25V E.CAP.	
	C361	QCF31HZ-103Z	0.01MF 50V C CAP.	
	C362	EETC1EM-226ZE	22MF 25V E.CAP.	
	C366	EETC1EM-226ZE	22MF 25V E.CAP.	
	C367	QCF31HZ-103Z	0.01MF 50V C CAP.	
	C368	EETC1EM-226ZE	22MF 25V E.CAP.	
	C369	EETC1EM-226ZE	22MF 25V E.CAP.	
	C370	QCF31HZ-103Z	0.01MF 50V C CAP.	
	C371	EETC1EM-226ZE	22MF 25V E.CAP.	
	C372	EETC1EM-226ZE	22MF 25V E.CAP.	
	C373	QCF31HZ-103Z	0.01MF 50V C CAP.	
	C374	EETC1EM-226ZE	22MF 25V E.CAP.	
	C703	QCBB1HK-471Y	470PF 50V CER.CAP.	
	C704	QCBB1HK-471Y	470PF 50V CER.CAP.	
	C705	QCSB1HJ-220	22PF 50V CER.CAP.	
	C706	QCSB1HJ-220	22PF 50V CER.CAP.	
	C707	QTE1E28-476Z	E.CAP.	
	C708	QTE1E28-476Z	E.CAP.	
	C709	QCSB1HJ-100Y	10PF 50V CER.CAP.	
	C710	QCSB1HJ-100Y	10PF 50V CER.CAP.	
	C711	QETN1HM-107Z	100MF 50V AL E.CAP.	
	C712	QETN1HM-107Z	100MF 50V AL E.CAP.	
	C713	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C714	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C715	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY

■ Electrical Parts List(Power Amp Board)

BLOCK NO 01

⚠	Item	Parts Number	Description	Area
	C716	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C717	QFLM1HJ-473Z	0.047MF 50V M CAP.	J
	C718	QFLM1HJ-473Z	0.047MF 50V M CAP.	J
	C721	QTE1V06-106Z	AL E.CAP.	
	C722	QTE1V06-106Z	AL E.CAP.	
	C723	EETB1HM-475E	4.7MF 50V E.CAP.	
	C726	EETB1EM-106E	10MF 25V E.CAP.	
	C729	EETB1CM-476	47MF 16V E.CAP.	
	C739	QFLM1HJ-103Z	0.01MF 50V M CAP.	
	C781	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C782	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C785	QCBB1HK-181Y	180PF 50V CER.CAP.	
	C786	QCBB1HK-181Y	180PF 50V CER.CAP.	
	C787	QETC1EM-476ZM	47MF 25V E.CAP.	
	C788	QETC1EM-476ZM	47MF 25V E.CAP.	
	C789	QCSB1HJ-100Y	10PF 50V CER.CAP.	
	C790	QCSB1HJ-100Y	10PF 50V CER.CAP.	
	C791	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C792	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C793	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C794	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C795	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C796	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	A B C E EE EN EV
		QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C797	QFLM1HJ-473Z	0.047MF 50V M CAP.	J
	C798	QFLM1HJ-473Z	0.047MF 50V M CAP.	J
	C799	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT
		QDYB1CM-103Y	0.01MF 16V CER.CAP.	UX UY C EE J
		QFLM1HJ-103Z	0.01MF 50V M CAP.	A B E EN EV
		RESISTORS		
⚠	R202	QRJ146J-4R7X	4.7 1/4W UNF.CARBON R	J
	R203	QRE141J-332Y	3.3K 1/4W C RES.	
	R204	QRE141J-223Y	22K 1/4W C RES.	
	R205	QRE141J-104Y	100K 1/4W C RES.	
	R209	QRE141J-103Y	10K 1/4W CARBON RES.	
	R210	QRE141J-472Y	4.7K 1/4W C RES.	
	R211	QRE141J-182Y	1.8K 1/4W C RES.	
	R238	QRJ146J-4R7X	4.7 1/4W UNF.CARBON R	B E EE EN EV
	R239	QRJ146J-4R7X	4.7 1/4W UNF.CARBON R	B E EE EN EV
	R242	QRE141J-222Y	2.2K 1/4W C RES.	
	R245	QRE141J-222Y	2.2K 1/4W C RES.	
	R246	QRE141J-222Y	2.2K 1/4W C RES.	
	R247	QRE141J-222Y	2.2K 1/4W C RES.	
	R290	QRE141J-102Y	1K 1/4W C RES.	
	R291	QRE141J-102Y	1K 1/4W C RES.	
	R292	QRE141J-102Y	1K 1/4W C RES.	
	R293	QRE141J-102Y	1K 1/4W C RES.	
	R294	QRE141J-103Y	10K 1/4W CARBON RES.	
	R295	QRE141J-183Y	18K 1/4W CARBON RES.	
	R299	QRL012J-332	3.3K 1W UNF.OMF.RES.	
⚠	R360	QRL01DJ-220X	22 1W OMF RES.	J ONLY
⚠		QRZ9006-4R7X	4.7 F RES.	A B E EE EN EV C
⚠		QRZ9006-4R7X	4.7 F RES.	U UP US UT EV UX UY
⚠	R361	QRL01DJ-220X	22 1W OMF RES.	J ONLY
⚠		QRZ9006-4R7X	4.7 F RES.	A B E EE EN EV C
⚠		QRZ9006-4R7X	4.7 F RES.	U UP US UT UX UY
	R362	QRE141J-331Y	330 1/4W C RES.	
	R363	QRE141J-331Y	330 1/4W C RES.	
	R364	QRE141J-122Y	1.2K 1/4W C RES.	
	R365	QRE141J-561Y	560 1/4W C RES.	
	R366	QRE141J-561Y	560 1/4W C RES.	
	R367	QRE141J-122Y	1.2K 1/4W C RES.	
	R368	QRE141J-331Y	330 1/4W C RES.	
	R371	QRE141J-4R7Y	4.7 1/4W C RES.	
	R372	QRE141J-4R7Y	4.7 1/4W C RES.	
⚠	R373	QRZ9021-220	22 FUSIBLE RES.	A B C E EE EN EV
⚠		QRZ9021-220	22 FUSIBLE RES.	U UP US UT UX UY
⚠	R374	QRL022J-220	22 2W OXIDE METAL	J
⚠		QRZ9021-220	22 FUSIBLE RES.	A B C E EE EN EV
⚠		QRZ9021-220	22 FUSIBLE RES.	U UP US UT UX UY
⚠	R375	QRL022J-220	22 2W OXIDE METAL	J
⚠		QRZ9021-220	22 FUSIBLE RES.	A B C E EE EN EV
⚠		QRZ9021-220	22 FUSIBLE RES.	U UP US UT UX UY
	R376	QRE141J-221Y	220 1/4W C RES.	
	R377	QRE141J-681Y	680 1/4W CARBON RES.	
	R378	QRE141J-182Y	1.8K 1/4W C RES.	
	R381	QRE141J-272Y	2.7K 1/4W C RES.	
	R382	QRE141J-562Y	5.6K 1/4W C RES.	
⚠	R383	QRL01DJ-150X	15 1W OMF RES.	J
	R384	QRE141J-272Y	2.7K 1/4W C RES.	
	R385	QRE141J-562Y	5.6K 1/4W C RES.	
	R388	QRE141J-103Y	10K 1/4W CARBON RES.	
	R389	QRE141J-103Y	10K 1/4W CARBON RES.	
	R701	QRL01DJ-331X	330 1W UNF.OMF.RES.	
	R702	QRL01DJ-331X	330 1W UNF.OMF.RES.	
	R703	QRE141J-563Y	56K 1/4W C RES.	
	R704	QRE141J-563Y	56K 1/4W C RES.	
	R705	QRJ146J-681X	680 1/4W UNF C RES I/	
	R706	QRJ146J-681X	680 1/4W UNF C RES I/	
	R707	QRE141J-563Y	56K 1/4W C RES.	
	R708	QRE141J-563Y	56K 1/4W C RES.	
	R709	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R710	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R711	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R712	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R713	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R714	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R715	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R716	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R717	QRE141J-122Y	1.2K 1/4W C RES.	
	R718	QRE141J-122Y	1.2K 1/4W C RES.	
	R719	QRE141J-223Y	22K 1/4W C RES.	
	R720	QRE141J-223Y	22K 1/4W C RES.	
	R721	QRE141J-103Y	10K 1/4W CARBON RES.	
	R722	QRE141J-103Y	10K 1/4W CARBON RES.	
	R723	QRE141J-392Y	3.9K 1/4W C RES.	
	R724	QRE141J-392Y	3.9K 1/4W C RES.	
	R725	QRE141J-823Y	82K 1/4W C RES.	
	R726	QRE141J-104Y	100K 1/4W C RES.	
	R727	QRE141J-104Y	100K 1/4W C RES.	
	R728	QRE141J-103Y	10K 1/4W CARBON RES.	
	R729	QRE141J-104Y	100K 1/4W C RES.	
	R730	QRE141J-103Y	10K 1/4W CARBON RES.	
	R733	QRE141J-473Y	47K 1/4W C RES.	
	R734	QRE141J-473Y	47K 1/4W C RES.	
	R735	QRE141J-473Y	47K 1/4W C RES.	
	R736	QRE141J-473Y	47K 1/4W C RES.	
	R739	QRL01DJ-821X	820 1W OMF RES.	
	R740	QRL01DJ-821X	820 1W OMF RES.	
	R741	QRE141J-223Y	22K 1/4W C RES.	
	R742	QRE141J-223Y	22K 1/4W C RES.	
	R743	QRE141J-223Y	22K 1/4W C RES.	
	R744	QRE141J-223Y	22K 1/4W C RES.	
	R745	QRE141J-103Y	10K 1/4W CARBON RES.	
	R746	QRE141J-103Y	10K 1/4W CARBON RES.	
	R747	QRE141J-823Y	82K 1/4W C RES.	
	R748	QRE141J-104Y	100K 1/4W C RES.	
	R749	QRE141J-471Y	470 1/4W C RES.	
	R750	QRE141J-471Y	470 1/4W C RES.	
	R751	QRJ146J-100X	10 1/4W UNF.CARBON R	

■ Electrical Parts List(Power Amp Board)

BLOCK NO 01

⚠	Item	Parts Number	Description	Area
	R752	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R766	QRE141J-333Y	33K 1/4W C RES.	
	R767	QRE141J-683Y	68K 1/4W C RES.	
	R771	QRE141J-222Y	2.2K 1/4W C RES.	
	R772	QRE141J-103Y	10K 1/4W CARBON RES.	
	R774	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R775	QRE141J-102Y	1K 1/4W C RES.	
	R776	QRE141J-102Y	1K 1/4W C RES.	
	R783	QRE141J-563Y	56K 1/4W C RES.	
	R784	QRE141J-563Y	56K 1/4W C RES.	
	R785	QRE141J-182Y	1.8K 1/4W C RES.	
	R786	QRE141J-182Y	1.8K 1/4W C RES.	
	R787	QRE141J-563Y	56K 1/4W C RES.	
	R788	QRE141J-563Y	56K 1/4W C RES.	
	R789	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R790	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R791	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R792	QRT01DJ-R22X	0.22 1W UNF.MF.RES.I	
	R793	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R794	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R795	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R796	QRJ146J-100X	10 1/4W UNF.CARBON R	
	R797	QRE141J-122Y	1.2K 1/4W C RES.	
	R798	QRE141J-122Y	1.2K 1/4W C RES.	
	R1001	QRZ9044-335	3.3M COMPOSITION	C J
		OTHERS		
	L201	QQR0779-001Z	INDUCTOR	B E EN EV
		QQR0779-001Z	INDUCTOR	A EE C
	L701	QQLZ005-R45	INDUCTOR	
	L702	QQLZ005-R45	INDUCTOR	
	L781	QQLZ005-R45	INDUCTOR	
	L782	QQLZ005-R45	INDUCTOR	
	S500	QSW0812-001	VOLTAGE SWITCH	U US UT UX UY
	CN102	QGB2510J1-10	CONNECT TERMINAL	
	CN103	QGB2501J1-11	CONNECT TERMINAL	
	CN104	QGB2501J1-06	B TO B CONNE	
	CN105	QGB2510J1-11	CONNECT TERMINAL	
	CN106	QGB2501K2-10	CONNECT TERMINAL	
	CN107	QGB2501K2-07	CONNECT TERMINAL	
	CN109	QGA3901C1-05	5P CONNECTOR	
	CN111	QGD2501C1-04Z	SOCKET ASSY	
	CN112	QGB2510K2-10	CONNECTOR	
	CN113	QGB2501K2-11	CONNECT TERMINAL	
	CN114	QGB2501K2-06	FLAT WIRE	
	CN119	EWS285-202V	CONNECTOR WIRE ASSY	
	CN703	QGB2510K2-06	CONNECTOR	
	CN704	QGB2510K2-05	CONNECTOR	
	CN713	QGB2510J1-06	CONNECTOR	
	CN714	QGB2510J1-05	CONNECT TERMINAL	
	CN915	QGD2501C1-04Z	SOCKET ASSY	
	EP201	E409182-001SM	EARTH TERMINAL	
	FT111	QNG0020-001Z	FUSE CLIP	
	FT112	QNG0020-001Z	FUSE CLIP	
	FT131	QNG0020-001Z	FUSE CLIP	U US UT UX UY
	FT132	QNG0020-001Z	FUSE CLIP	U US UT UX UY
	FT511	QNG0020-001Z	FUSE CLIP	
	FT512	QNG0020-001Z	FUSE CLIP	
	FT521	QNG0020-001Z	FUSE CLIP	
	FT522	QNG0020-001Z	FUSE CLIP	
	FW101	QUM134-16DGZ4	FLAT WIRE	
	FW411	QUM137-13DGZ4	FLAT WIRE	
	TB101	QNZ0079-001Z	TAB I.M	
	TB102	QNZ0079-001Z	TAB I.M	
	TH202	QAD0095-4R7Z	POSITIVE THERMISTOR	A B C E EE EN EV
		QAD0095-4R7Z	POSITIVE THERMISTOR	U UP US UT UX UY
	TW799	QUB230-06EMHP		A B E EN EV C EE

■ Electrical Parts List(Function, Tuner, Main board)

BLOCK NO 02

⚠	Item	Parts Number	Description	Area
		I.C.S		
	IC 1	LA1838	I.C(M)	
	IC 2	LC72136N	I.C(M)	
	IC 4	BU1923	I.C(M)	B E EE EN EV
	IC 6	BU4066BC	I.C(DIGI-MOS)	EE
	IC 7	BA15218	I.C(MONO-ANALOG)	EE
	IC 8	BA15218N	I.C(MONO-ANALOG)	EE
	IC401	TDA7439	I.C(M)	
	IC402	BA15218	I.C(MONO-ANALOG)	
	IC403	BA15218	I.C(MONO-ANALOG)	U UP US UT UX UY
	IC404	BU4052BC	I.C(M)	U UP US UT UX UY
	IC405	BA15218	I.C(MONO-ANALOG)	
	IC406	LA2650	I.C(MONO-ANALOG)	
	IC501	LV1035M	I.C(M)	
	IC542	BA3835S	I.C(M)	
	IC561	TDA7439	I.C(M)	
		DIODES		
	D 1	1SS133-T2	SI.DIODE	
	D 2	1SS133-T2	SI.DIODE	
	D 3	1SS133-T2	SI.DIODE	
	D 4	1SS133-T2	SI.DIODE	
	D 5	MTZJ5.6B-T2	ZENER DIODE	
	D 6	MTZJ5.6B-T2	ZENER DIODE	B E EE EN EV
	D 8	1SS133-T2	SI.DIODE	
	D100	RB721Q-T2	SI.DIODE	EE
	D101	RB721Q-T2	SI.DIODE	EE
	D102	1SS133-T2	SI.DIODE	EE
	D103	1SS133-T2	SI.DIODE	EE
	D104	1SS133-T2	SI.DIODE	EE
	D110	1SS133-T2	SI.DIODE	EE
	D111	1SS133-T2	SI.DIODE	EE
	D303	1SS133-T2	SI.DIODE	
	D305	1SS133-T2	SI.DIODE	
	D306	1SS133-T2	SI.DIODE	
	D307	1SS133-T2	SI.DIODE	
	D481	1SS133-T2	SI.DIODE	
	D482	1SS133-T2	SI.DIODE	
	D483	1SS133-T2	SI.DIODE	
	D484	1SS133-T2	SI.DIODE	
	D485	1SS133-T2	SI.DIODE	
	D501	MTZJ5.1B-T2	ZENER DIODE	
	D561	1SS133-T2	SI.DIODE	
		TRANSISTORS		
	Q 1	2SC1923/O/-T	TR TAPE	
	Q 2	KRA107M-T	DIGITAL TRANSISTOR	B E EE EN EV
	Q 3	KTC3199/GL/-T	TRANSISTOR	B E EE EN EV
	Q 4	KTC3199/GL/-T	TRANSISTOR	B E EE EN EV
	Q 6	KRA107M-T	DIGITAL TRANSISTOR	
	Q 14	2SA1175/HFE/-T	TRANSISTOR	B E EE EN EV
	Q401	2SC3576-JVC-T	SI.TRANSISTOR	
	Q402	2SC3576-JVC-T	SI.TRANSISTOR	
	Q403	KRA102M-T	DIGITAL TRANSISTOR	
	Q405	2SC3576-JVC-T	SI.TRANSISTOR	
	Q406	2SC3576-JVC-T	SI.TRANSISTOR	
	Q407	2SA1175/HFE/-T	TRANSISTOR	
	Q408	KTC3199/GL/-T	TRANSISTOR	
	Q409	KRC114M-T	SI.TRANSISTOR	
	Q410	KTC3199/GL/-T	TRANSISTOR	
	Q411	KTC3199/GL/-T	TRANSISTOR	
	Q412	KRC102M-T	DIGITAL TRANSISTOR	U UP US UT UX UY
	Q413	KRC102M-T	DIGITAL TRANSISTOR	U UP US UT UX UY
		2SC2235/OY/-T	TRANSISTOR	
	Q481	2SC3576-JVC-T	SI.TRANSISTOR	
	Q482	2SC3576-JVC-T	SI.TRANSISTOR	
	Q483	KRA102M-T	DIGITAL TRANSISTOR	
	Q501	2SC3576-JVC-T	SI.TRANSISTOR	
	Q502	2SC3576-JVC-T	SI.TRANSISTOR	

⚠	Item	Parts Number	Description	Area
		CAPACITORS		
	C 1	QCBB1HK-223Y	0.022MF 50V CER.CAP.	
	C 3	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 4	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C 5	EETB1CM-476	47MF 16V E.CAP.	C J U UP
		EETB1CM-476	47MF 16V E.CAP.	US UT UX UY
		EETC1CM-106ZJC	10MF 16V AL E.CAP.	EE
		QETN1AM-107Z	100MF 10V AL E.CAP.	A B E EN EV
	C 8	QCSB1HJ-150Y	15PF 50V CER.CAP.	B E EE EN EV
	C 9	QCB31HK-272Z	2700PF 50V C.CAP.	B E EE EN EV
	C 10	QETB1HM-474N	0.47MF 50V E.CAP.	
	C 12	QCSB1HJ-100Y	10PF 50V CER.CAP.	A C J U UP
		QCSB1HJ-100Y	10PF 50V CER.CAP.	US UT UX UY
		QCSB1HJ-150Y	15PF 50V CER.CAP.	B E EE EN EV
	C 13	QFLM1HJ-473Z	0.047MF 50V M CAP.	A B C E EN EV J
		QFLM1HJ-473Z	0.047MF 50V M CAP.	U UP US UT UX UY
	C 14	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 18	QCBB1HK-471Y	470PF 50V CER.CAP.	C EE J U
		QCBB1HK-471Y	470PF 50V CER.CAP.	UP US UT UX UY
		QDXB1CM-152Y	1500PF 16V C CAP.	A B E EN EV
	C 19	QCBB1HK-471Y	470PF 50V CER.CAP.	C EE J U UP
		QCBB1HK-471Y	470PF 50V CER.CAP.	US UT UX UY
		QDXB1CM-152Y	1500PF 16V C CAP.	A B E EN EV
	C 20	EETC1HM-226ZJC	22MF 50V E.RES.	
	C 21	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 22	QFVJ1HJ-274Z	0.27MF 50V CAP.	
	C 23	EETB1HM-105E	1MF 50V E.CAP.	
	C 24	EETC1HM-226ZJC	22MF 50V E.RES.	
	C 25	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
		QFLM1HJ-223Z	0.022MF 50V M CAP.	B E EE EN EV
		QFLM1HJ-273Z	0.027MF 50V M CAP.	A C J U UP
		QFLM1HJ-273Z	0.027MF 50V M CAP.	US UT UX UY
	C 26	EETB1EM-106E	10MF 25V E.CAP.	
	C 27	EETB1HM-105E	1MF 50V E.CAP.	
	C 28	EETB1HM-105E	1MF 50V E.CAP.	
	C 29	QFLM1HJ-152Z	1500PF 50V MYLAR CAP.	
		QFLM1HJ-182Z	1800PF 50V MYLAR CAP.	A B E EE EN EV
		QFLM1HJ-222Z	2200PF 50V MYLAR CAP.	C J
	C 30	QFLM1HJ-152Z	1500PF 50V MYLAR CAP.	
		QFLM1HJ-182Z	1800PF 50V MYLAR CAP.	A B E EE EN EV
		QFLM1HJ-222Z	2200PF 50V MYLAR CAP.	C J
	C 31	QCSB1HJ-330Y	33PF 50V CER.CAP.	B E EN EV
		QCSB1HJ-560Y	56PF 50V CER.CAP.	
	C 32	QCGB1HK-102	1000PF 50V CER.CAP.	
	C 33	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 34	QETB1HM-474N	0.47MF 50V E.CAP.	
	C 35	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C 36	EETB1HM-105E	1MF 50V E.CAP.	
	C 37	QETB1HM-474N	0.47MF 50V E.CAP.	
	C 38	EETB1HM-105E	1MF 50V E.CAP.	
	C 39	QCBB1HK-223Y	0.022MF 50V CER.CAP.	
	C 40	QETC1EM-107Z	100MF 25V AL E.CAP.	
	C 41	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 42	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 43	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 44	QCGB1HK-102	1000PF 50V CER.CAP.	C J U
		QCGB1HK-102	1000PF 50V CER.CAP.	UP US UT UX UY
	C 51	EETB1HM-105E	1MF 50V E.CAP.	
		QENC1HM-105Z	1MF 50V NP E.CAP.	EE
	C 52	EETB1HM-105E	1MF 50V E.CAP.	
		QENC1HM-105Z	1MF 50V NP E.CAP.	EE
	C 60	QEKC1AM-107Z	100MF 10V E CAP.	
	C 61	QCSB1HJ-120Y	12PF 50V CER.CAP.	
	C 62	QCSB1HJ-120Y	12PF 50V CER.CAP.	
	C 63	QCBB1HK-473Y	0.047MF 50V CER.CAP.	
	C 65	QCGB1HK-102	1000PF 50V CER.CAP.	
	C 66	QCBB1HK-151	150PF 50V CER.CAP.	

■ Electrical Parts List(Function, Tuner, Main board)

BLOCK NO 02

⚠	Item	Parts Number	Description	Area
	C 67	QCBB1HK-151	150PF 50V CER.CAP.	
	C 68	QCBB1HK-101Y	100PF 50V CER.CAP.	
	C 69	QFVJ1HJ-105Z	1MF 50V TF.CAP.	
	C 70	QDXB1CM-392Y	3900PF 16V C CAP.	
	C 71	EETB1CM-476	47MF 16V E.CAP.	
	C 72	QCGB1HK-102	1000PF 50V CER.CAP.	
	C 80	QCBB1HK-820Y	82PF 50V CER.CAP.	B E EE EN EV
	C 81	QCSB1HJ-470	47PF 50V CER.CAP.	B E EE EN EV
	C 82	EETC1CM-106ZJC	10MF 16V AL E.CAP.	B E EE EN EV
	C 83	QCBB1HK-473Y	0.047MF 50V CER.CAP.	B E EE EN EV
	C 84	QETC1HM-225ZM	2.2MF 50V E.CAP.	B E EE EN EV
	C 85	QCBB1HK-331Y	330PF 50V CER.CAP.	B E EE EN EV
	C 86	QCBB1HK-561Y	560PF 50V CER.CAP.	B E EE EN EV
	C 89	QCGB1HK-102	1000PF 50V CER.CAP.	B E EE EN EV
	C 90	QDYB1CM-103Y	0.01MF 16V CER.CAP.	B E EE EN EV
	C 98	QCSB1HJ-100Y	10PF 50V CER.CAP.	B E EE EN EV
	C110	EETB1HM-105E	1MF 50V E.CAP.	EE
	C111	EETC1HM-335ZJC	3.3MF 50V E.CAP.	EE
	C113	QFP32AJ-103Z	0.01MF 100V PP CAP.	EE
	C114	QFP32AJ-103Z	0.01MF 100V PP CAP.	EE
	C115	QCBB1HK-271Y	270PF 50V CER.CAP.	EE
	C116	QCBB1HK-271Y	270PF 50V CER.CAP.	EE
	C117	EETB1HM-475E	4.7MF 50V E.CAP.	EE
	C118	EETB1HM-475E	4.7MF 50V E.CAP.	EE
	C119	QDXB1CM-222Y	2200PF 16V C CAP.	EE
	C120	QDXB1CM-222Y	2200PF 16V C CAP.	EE
	C121	QETN1AM-226Z	22MF 10V E CAP.	EE
	C122	QCS21HJ-221	220PF 50V CER.CAP.	EE
	C123	QCS21HJ-221	220PF 50V CER.CAP.	EE
	C124	QFLM1HJ-103Z	0.01MF 50V M CAP.	EE
	C125	EETB1HM-105E	1MF 50V E.CAP.	EE
	C126	EETB1HM-105E	1MF 50V E.CAP.	EE
	C127	EETB1HM-105E	1MF 50V E.CAP.	EE
	C128	EETC1HM-335ZJC	3.3MF 50V E.CAP.	EE
	C129	EETB1HM-105E	1MF 50V E.CAP.	EE
	C130	EETB1HM-105E	1MF 50V E.CAP.	EE
	C131	EETB1HM-105E	1MF 50V E.CAP.	EE
	C132	EETB1HM-105E	1MF 50V E.CAP.	EE
	C360	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C361	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C365	QETN1CM-227ZS	220MF 16V E.CAP.	
	C366	QETN1AM-108Z	1000MF 10V AL E.CAP.	
	C372	EETB1HM-475E	4.7MF 50V E.CAP.	
	C373	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C380	QETC1HM-224Z	0.22MF 50V AL E.CAP.	
	C381	QCFB1HZ-104Y	0.1MF 50V CER.CAP.	
	C382	QCFB1HZ-104Y	0.1MF 50V CER.CAP.	
	C383	QETC1EM-476ZM	47MF 25V E.CAP.	
	C385	EETB1HM-105E	1MF 50V E.CAP.	
	C386	QDGB1HK-681Y	680PF 50V C CAP.	
	C387	QFLM1HJ-153Z	0.015MF 50V M CAP.	
	C388	QDXB1CM-182Y	1800PF 16V C CAP.	
	C389	QCSB1HJ-330Y	33PF 50V CER.CAP.	
	C390	QETC1HM-224Z	0.22MF 50V AL E.CAP.	
	C398	QFLM1HJ-103Z	0.01MF 50V M CAP.	A B C E EN EV J
		QFLM1HJ-103Z	0.01MF 50V M CAP.	U UP US UT UX UY
		QFVJ1HJ-103Z	0.01MF 50V TF CAP.	
	C399	QFLM1HJ-103Z	0.01MF 50V M CAP.	A B C E EN EV J
		QFLM1HJ-103Z	0.01MF 50V M CAP.	U UP US UT UX UY
		QFVJ1HJ-103Z	0.01MF 50V TF CAP.	
⚠	C401	QFLM1HJ-392Z	3900PF 50V MYLAR CAP.	
⚠	C402	QFLM1HJ-392Z	3900PF 50V MYLAR CAP.	
	C403	QFLM1HJ-102Z	1000PF 50V MYLAR CAP.	
	C404	QFLM1HJ-102Z	1000PF 50V MYLAR CAP.	
	C407	QTE1V06-106Z	AL E.CAP.	
	C408	QTE1V06-106Z	AL E.CAP.	
	C411	EETB1EM-106E	10MF 25V E.CAP.	

⚠	Item	Parts Number	Description	Area
	C412	EETB1EM-106E	10MF 25V E.CAP.	
	C413	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C414	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C415	EETB1EM-106E	10MF 25V E.CAP.	
	C416	EETB1EM-106E	10MF 25V E.CAP.	
⚠	C417	QETC1HM-225ZM	2.2MF 50V E.CAP.	
⚠	C418	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C419	EETB1EM-106E	10MF 25V E.CAP.	
	C420	QETN1AM-107Z	100MF 10V AL E.CAP.	
	C421	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C422	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C423	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C424	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C425	QFLM1HJ-183Z	0.018MF 50V M CAP.	
	C426	QFLM1HJ-183Z	0.018MF 50V M CAP.	
	C427	QFLM1HJ-223Z	0.022MF 50V M CAP.	
	C428	QFLM1HJ-223Z	0.022MF 50V M CAP.	
	C429	QFLM1HJ-562Z	5600PF 50V MYLAR CAP.	
	C430	QFLM1HJ-562Z	5600PF 50V MYLAR CAP.	
	C431	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C432	QETC1HM-225ZM	2.2MF 50V E.CAP.	
⚠	C433	QETC1HM-225ZM	2.2MF 50V E.CAP.	
⚠	C434	QETC1HM-225ZM	2.2MF 50V E.CAP.	
⚠	C435	EETB1EM-106E	10MF 25V E.CAP.	
⚠	C436	EETB1EM-106E	10MF 25V E.CAP.	
	C439	QETC1HM-224Z	0.22MF 50V AL E.CAP.	U UP US UT UX UY
	C440	EETB1EM-106E	10MF 25V E.CAP.	U UP US UT UX UY
	C445	QCBB1HK-101Y	100PF 50V CER.CAP.	
	C446	QCBB1HK-101Y	100PF 50V CER.CAP.	
⚠	C447	EETB1EM-106E	10MF 25V E.CAP.	
⚠	C448	EETB1EM-106E	10MF 25V E.CAP.	
	C453	QCBB1HK-101Y	100PF 50V CER.CAP.	B E EN EV
	C454	QCBB1HK-101Y	100PF 50V CER.CAP.	U UP US UT UX UY
	C455	QCBB1HK-101Y	100PF 50V CER.CAP.	B E EN EV
⚠	C457	QTE1V06-106Z	10MF 25V E.CAP.	
⚠	C458	QTE1V06-106Z	10MF 25V E.CAP.	
	C459	QFLM1HJ-333Z	0.033MF 50V MYLAR CAP.	
	C460	EETB1HM-475E	4.7MF 50V E.CAP.	
	C461	QETB1HM-474N	0.47MF 50V E.CAP.	
	C462	QFLM1HJ-393Z	0.039MF 50V M CAP.	
	C463	EETB1HM-475E	4.7MF 50V E.CAP.	
	C464	QETN1AM-107Z	100MF 10V AL E.CAP.	
	C465	QFLM1HJ-473Z	0.047MF 50V M CAP.	
	C466	QFLM1HJ-473Z	0.047MF 50V M CAP.	
	C467	EETB1HM-105E	1MF 50V E.CAP.	
	C468	QETC1EM-476ZM	47MF 25V E.CAP.	
	C477	EETB1HM-475E	4.7MF 50V E.CAP.	
	C481	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C482	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C483	QCBB1HK-101Y	100PF 50V CER.CAP.	A C J
		QDXB1CM-222Y	2200PF 16V C CAP.	B E EE EN EV
		QDXB1CM-222Y	2200PF 16V C CAP.	U UP US UT UX UY
	C484	QCBB1HK-101Y	100PF 50V CER.CAP.	A C EE J
		QCGB1HK-102	1000PF 50V CER.CAP.	U UP US UT UX UY
		QDXB1CM-222Y	2200PF 16V C CAP.	B E EN EV
⚠	C485	QETN1AM-107Z		
	C489	EETB1CM-476	47MF 16V E.CAP.	
	C490	EETB1CM-476	47MF 16V E.CAP.	
	C493	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C494	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C495	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C496	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
⚠	C501	EETB1EM-106E	10MF 25V E.CAP.	
⚠	C502	EETB1EM-106E	10MF 25V E.CAP.	
	C503	QFLM1HJ-223Z	0.022MF 50V M CAP.	
	C504	QFLM1HJ-473Z	0.047MF 50V M CAP.	
	C505	QETB0JM-227	220MF 6.3V E.CAP.	

■ Electrical Parts List(Function, Tuner, Main board)

BLOCK NO 02

⚠	Item	Parts Number	Description	Area
	C506	EETB1EM-106E	10MF 25V E.CAP.	
	C507	EETB1EM-106E	10MF 25V E.CAP.	
	C508	EETB1EM-106E	10MF 25V E.CAP.	
	C509	EETB1EM-106E	10MF 25V E.CAP.	
	C510	QETB0JM-227	220MF 6.3V E.CAP.	
	C511	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C512	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C513	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C514	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
⚠	C515	QEKC1HM-474Z	0.47MF 50V E.CAP.	
	C516	QETB1HM-474N	0.47MF 50V E.CAP.	
	C517	EETB1HM-475E	4.7MF 50V E.CAP.	
	C518	EETB1HM-475E	4.7MF 50V E.CAP.	
	C519	QETB1HM-474N	0.47MF 50V E.CAP.	
	C520	QETB1HM-474N	0.47MF 50V E.CAP.	
	C521	EETB1HM-475E	4.7MF 50V E.CAP.	
	C522	EETB1HM-475E	4.7MF 50V E.CAP.	
	C523	QFVJ1HJ-154Z	0.15MF 50V TF CAP.	
	C524	QFVJ1HJ-154Z	0.15MF 50V TF CAP.	
	C525	QETN1HM-335Z	3.3MF 50V AL E.CAP.	
	C526	QETN1HM-335Z	3.3MF 50V AL E.CAP.	
	C527	QFVJ1HJ-154Z	0.15MF 50V TF CAP.	
	C528	QFVJ1HJ-154Z	0.15MF 50V TF CAP.	
	C529	QFVJ1HJ-474Z	0.47MF 50V CAP.	
	C530	QETC1EM-476ZM	47MF 25V E.CAP.	
	C531	QETN1AM-227Z	220MF 10V E.CAP.	
	C532	QDGB1HK-681Y	680PF 50V C CAP.	
	C533	QCSB1HJ-470	47PF 50V CER.CAP.	
	C535	QCBB1HK-561Y	560PF 50V CER.CAP.	
	C536	QCZ0205-155Z		
	C541	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C542	QETN1AM-227Z	220MF 10V E.CAP.	
⚠	C543	QCZ0205-155Z	0.047MF 50V C CAP.	
	C544	QETB1HM-474N	0.47MF 50V E.CAP.	
	C545	QETB1HM-474N	0.47MF 50V E.CAP.	
	C546	QFLM1HJ-823Z	0.082MF 50V MYLAR CAP.	
	C547	QCB31HK-332Z	3300PF 50V C CAP.	
	C548	QFLM1HJ-823Z	0.082MF 50V MYLAR CAP.	
	C549	QETB0JM-227	220MF 6.3V E.CAP.	
	C550	QCF31HZ-473Z	0.047MF 50V C CAP.	
	C551	QCS21HJ-300	30PF 50V CER.CAP.	
	C552	QCS21HJ-300	30PF 50V CER.CAP.	
⚠	C553	EETB1EM-106E	10MF 25V E.CAP.	
⚠	C554	EETB1EM-106E	10MF 25V E.CAP.	
	C555	EETB1EM-106E	10MF 25V E.CAP.	
	C556	EETB1EM-106E	10MF 25V E.CAP.	
	C561	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C562	QETC1HM-225ZM	2.2MF 50V E.CAP.	
	C563	EETB1HM-105E	1MF 50V E.CAP.	
	C564	EETB1HM-105E	1MF 50V E.CAP.	
	C565	EETB1EM-106E	10MF 25V E.CAP.	
	C566	QETN1AM-107Z	100MF 10V AL E.CAP.	
	C580	QDX31EM-473Z	0.047MF 25V C CAP.	
⚠	C581	QDYB1CM-103Y	0.01MF 16V CER.CAP.	B E EN
⚠	C582	QDYB1CM-103Y	0.01MF 16V CER.CAP.	EV A
	C583	QFLM1HJ-103Z	0.01MF 50V M CAP.	B E EN EV
⚠	C584	QCS31HJ-391Z	0.01MF 50V C CAP.	B E EN EV
	C585	QCGB1HK-102	1000PF 50V CER.CAP.	U UP US UT UX UY
⚠	C586	QFLM1HJ-102Z		B E EN EV A
	C587	EETB1EM-106E	10MF 25V E.CAP.	
	C589	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
		RESISTORS		
	R 1	QRE141J-102Y	1K 1/4W C RES.	
	R 2	QRE141J-121Y	120 1/4W C RES.	EE
		QRE141J-181Y	180 1/4W C RES.	A B E EN EV
	R 10	QRE141J-102Y	1K 1/4W C RES.	A C J U
		QRE141J-102Y	1K 1/4W C RES.	US UT UX UY

⚠	Item	Parts Number	Description	Area
	R 10	QRE141J-152Y	1.5K 1/4W CARBON RE	B E EE EN EV
	R 12	QRE141J-102Y	1K 1/4W C RES.	
	R 13	QRE141J-104Y	100K 1/4W C RES.	
	R 14	QRE141J-560Y	56 1/4W C RES.	A C J U UP
		QRE141J-560Y	56 1/4W C RES.	US UT UX UY
	R 15	QRE141J-103Y	10K 1/4W CARBON RE	B E EE EN EV
	R 16	QRE141J-103Y	10K 1/4W CARBON RE	B E EE EN EV
	R 19	QRE141J-333Y	33K 1/4W C RES.	
		QRE141J-393Y	39K 1/4W C RES.	A B E EE EN EV
		QRE141J-623Y	62K 1/4W C RES.	C J U UP
		QRE141J-623Y	62K 1/4W C RES.	US UT UX UY
	R 20	QRE141J-331Y	330 1/4W C RES.	
	R 21	QRE141J-224Y	220K 1/4W C RES.	
	R 22	QRE141J-331Y	330 1/4W C RES.	
	R 23	QRE141J-6R8Y	6.8 1/4W C RES.	EE
	R 24	QRE141J-433Y	43K 1/4W C RES.	
	R 25	QRE141J-272Y	2.7K 1/4W C RES.	
	R 26	QRE141J-103Y	10K 1/4W CARBON RE	A C J U UP
		QRE141J-103Y	10K 1/4W CARBON RE	US UT UX UY
		QRE141J-183Y	18K 1/4W CARBON RE	
		QRE141J-273Y	27K 1/4W CARBON RE	B E EE EN EV
	R 27	QRE141J-333Y	33K 1/4W C RES.	
		QRE141J-393Y	39K 1/4W C RES.	A B E EE EN EV
		QRE141J-623Y	62K 1/4W C RES.	C J
		QRE141J-623Y	62K 1/4W C RES.	U UP US UT UX UY
	R 28	QRE141J-223Y	22K 1/4W C RES.	
	R 29	QRE141J-302Y	3K 1/4W C RES.	
	R 30	QRE141J-392Y	3.9K 1/4W C RES.	
	R 31	QRE141J-200Y	20 1/4W C RES.	
	R 32	QRE141J-331Y	330 1/4W C RES.	
	R 33	QRE141J-103Y	10K 1/4W CARBON RE	
	R 34	QRE141J-222Y	2.2K 1/4W C RES.	
	R 35	QRE141J-222Y	2.2K 1/4W C RES.	
	R 36	QRE141J-103Y	10K 1/4W CARBON RE	
	R 37	QRE141J-102Y	1K 1/4W C RES.	
	R 43	QRE141J-102Y	1K 1/4W C RES.	
	R 44	QRE141J-102Y	1K 1/4W C RES.	
	R 45	QRE141J-102Y	1K 1/4W C RES.	
	R 46	QRE141J-563Y	56K 1/4W C RES.	
	R 47	QRE141J-103Y	10K 1/4W CARBON RE	
	R 48	QRE141J-331Y	330 1/4W C RES.	
	R 49	QRE141J-102Y	1K 1/4W C RES.	
	R 52	QRE141J-472Y	4.7K 1/4W C RES.	
	R 54	QRE141J-472Y	4.7K 1/4W C RES.	
	R 55	QRE141J-182Y	1.8K 1/4W C RES.	
	R 56	QRE141J-332Y	3.3K 1/4W C RES.	
	R 57	QRE141J-102Y	1K 1/4W C RES.	
	R 60	QRE141J-102Y	1K 1/4W C RES.	B E EE EN EV
	R 61	QRE141J-102Y	1K 1/4W C RES.	B E EE EN EV
	R 64	QRE141J-473Y	47K 1/4W C RES.	
	R 65	QRE141J-222Y	2.2K 1/4W C RES.	
	R 66	QRE141J-222Y	2.2K 1/4W C RES.	
	R 69	QRE141J-222Y	10K 1/4W CARBON RE	
	R 76	QRE141J-102Y	1K 1/4W C RES.	B E EE EN EV
	R 80	QRE141J-222Y	2.2K 1/4W C RES.	B E EE EN EV
	R 82	QRE141J-102Y	1K 1/4W C RES.	B E EE EN EV
	R 83	QRE141J-102Y	1K 1/4W C RES.	B E EE EN EV
	R 84	QRE141J-103Y	10K 1/4W CARBON RE	B E EE EN EV
	R 91	QRE141J-103Y	10K 1/4W CARBON RE	B E EE EN EV
	R 99	QRE141J-102Y	1K 1/4W C RES.	EE
	R101	QRE141J-561Y	560 1/4W C RES.	
	R102	QRE141J-561Y	560 1/4W C RES.	B E EE EN EV
	R110	QRE141J-123Y	12K 1/4W C RES.	EE
	R111	QRE141J-563Y	56K 1/4W C RES.	EE
	R112	QRE141J-103Y	10K 1/4W CARBON RE	EE
	R113	QRE141J-563Y	56K 1/4W C RES.	EE
	R114	QRE141J-562Y	5.6K 1/4W C RES.	EE

■ Electrical Parts List(Function, Tuner, Main board)

BLOCK NO 02

⚠	Item	Parts Number	Description	Area
	R115	QRE141J-184Y	180K 1/4W C RES.	EE
	R116	QRE141J-224Y	220K 1/4W C RES.	EE
	R117	QRE141J-623Y	62K 1/4W C RES.	EE
	R118	QRE141J-103Y	10K 1/4W CARBON RE	EE
	R119	QRE141J-224Y	220K 1/4W C RES.	EE
	R120	QRE141J-224Y	220K 1/4W C RES.	EE
	R121	QRE141J-333Y	33K 1/4W C RES.	EE
	R122	QRE141J-224Y	220K 1/4W C RES.	EE
	R123	QRE141J-224Y	220K 1/4W C RES.	EE
	R124	QRE141J-103Y	10K 1/4W CARBON RE	EE
	R125	QRE141J-103Y	10K 1/4W CARBON RE	EE
	R126	QRE141J-333Y	33K 1/4W C RES.	EE
	R127	QRE141J-473Y	47K 1/4W C RES.	EE
	R128	QRE141J-473Y	47K 1/4W C RES.	EE
	R129	QRE141J-104Y	100K 1/4W C RES.	EE
	R130	QRE141J-104Y	100K 1/4W C RES.	EE
	R131	QRE141J-473Y	47K 1/4W C RES.	EE
	R132	QRE141J-102Y	1K 1/4W C RES.	EE
	R133	QRE141J-274Y	270K 1/4W C RES.	EE
	R134	QRE141J-274Y	270K 1/4W C RES.	EE
	R135	QRE141J-184Y	180K 1/4W C RES.	EE
	R136	QRE141J-184Y	180K 1/4W C RES.	EE
	R137	QRE141J-224Y	220K 1/4W C RES.	EE
	R138	QRE141J-224Y	220K 1/4W C RES.	EE
	R360	QRE141J-222Y	2.2K 1/4W C RES.	
	R362	QRE141J-221Y	220 1/4W C RES.	B E EE EN EV
	R363	QRE141J-391Y	390 1/4W C RES.	
	R370	QRE141J-102Y	1K 1/4W C RES.	
	R371	QRE141J-103Y	10K 1/4W CARBON RE	
	R372	QRE141J-103Y	10K 1/4W CARBON RE	
	R375	QRE141J-331Y	330 1/4W C RES.	
	R376	QRE141J-473Y	47K 1/4W C RES.	
	R377	QRE141J-103Y	10K 1/4W CARBON RE	U UP US UT UX UY
	R378	QRE141J-104Y	100K 1/4W C RES.	
	R383	QRE141J-472Y	4.7K 1/4W C RES.	
	R384	QRE141J-472Y	4.7K 1/4W C RES.	
	R386	QRE141J-104Y	100K 1/4W C RES.	
	R387	QRE141J-473Y	47K 1/4W C RES.	
	R388	QRE141J-220Y	22 1/4W CARBON RE	
	R389	QRE141J-225Y	2.2M 1/4W C RES.	
	R401	QRE141J-222Y	2.2K 1/4W C RES.	
	R402	QRE141J-222Y	2.2K 1/4W C RES.	
	R403	QRE141J-222Y	2.2K 1/4W C RES.	
	R404	QRE141J-222Y	2.2K 1/4W C RES.	
	R405	QRE141J-432Y	4.3K 1/4W C RES.	
	R406	QRE141J-432Y	4.3K 1/4W C RES.	
	R407	QRE141J-302Y	3K 1/4W C RES.	
	R408	QRE141J-302Y	3K 1/4W C RES.	
	R413	QRE141J-303Y	30K 1/4W C RES.	
	R414	QRE141J-303Y	30K 1/4W C RES.	
	R415	QRE141J-303Y	30K 1/4W C RES.	
	R416	QRE141J-303Y	30K 1/4W C RES.	
	R417	QRE141J-562Y	5.6K 1/4W C RES.	
	R418	QRE141J-562Y	5.6K 1/4W C RES.	
	R419	QRE141J-272Y	2.7K 1/4W C RES.	
	R420	QRE141J-272Y	2.7K 1/4W C RES.	
	R421	QRE141J-104Y	100K 1/4W C RES.	
	R422	QRE141J-104Y	100K 1/4W C RES.	
	R423	QRE141J-303Y	30K 1/4W C RES.	U UP US UT UX UY
	R424	QRE141J-153Y	15K 1/4W C RES.	U UP US UT UX UY
	R425	QRE141J-153Y	15K 1/4W C RES.	U UP US UT UX UY
	R426	QRE141J-303Y	30K 1/4W C RES.	U UP US UT UX UY
	R427	QRE141J-153Y	15K 1/4W C RES.	U UP US UT UX UY
	R428	QRE141J-104Y	100K 1/4W C RES.	U UP US UT UX UY
	R429	QRE141J-473Y	47K 1/4W C RES.	U UP US UT UX UY
	R430	QRE141J-473Y	47K 1/4W C RES.	U UP US UT UX UY
	R433	QRE141J-562Y	5.6K 1/4W C RES.	

⚠	Item	Parts Number	Description	Area
	R434	QRE141J-562Y	5.6K 1/4W C RES.	
	R435	QRE141J-104Y	100K 1/4W C RES.	
	R436	QRE141J-104Y	100K 1/4W C RES.	
	R437	QRE141J-472Y	4.7K 1/4W C RES.	A B C E EE EN EV
		QRE141J-682Y	6.8K 1/4W C RES.	U UP US UT UX UY
	R438	QRE141J-472Y	4.7K 1/4W C RES.	A B C E EE EN EV
		QRE141J-682Y	6.8K 1/4W C RES.	U UP US UT UX UY
	R439	QRE141J-472Y	4.7K 1/4W C RES.	
	R440	QRE141J-472Y	4.7K 1/4W C RES.	
	R441	QRE141J-104Y	100K 1/4W C RES.	
	R442	QRE141J-104Y	100K 1/4W C RES.	
	R443	QRE141J-203Y	20K 1/4W C RES.	U UP US UT UX UY
	R444	QRE141J-203Y	20K 1/4W C RES.	U UP US UT UX UY
	R445	QRE141J-303Y	30K 1/4W C RES.	
	R446	QRE141J-303Y	30K 1/4W C RES.	
	R447	QRE141J-153Y	15K 1/4W C RES.	U UP US UT UX UY
⚠	R448	QRE141J-331Y		
	R450	QRE141J-224Y	220K 1/4W C RES.	
	R459	QRE141J-472Y	4.7K 1/4W C RES.	
	R460	QRE141J-472Y	4.7K 1/4W C RES.	
	R461	QRE141J-222Y	2.2K 1/4W C RES.	
	R462	QRE141J-222Y	2.2K 1/4W C RES.	
	R463	QRE141J-103Y	10K 1/4W CARBON RE	
	R464	QRE141J-103Y	10K 1/4W CARBON RE	
	R465	QRE141J-102Y	1K 1/4W C RES.	
	R469	QRE141J-221Y	220 1/4W C RES.	
	R470	QRE141J-221Y	220 1/4W C RES.	
	R471	QRE141J-103Y	10K 1/4W CARBON RE	
	R472	QRE141J-103Y	10K 1/4W CARBON RE	
	R473	QRE141J-103Y	10K 1/4W CARBON RE	
	R481	QRE141J-222Y	2.2K 1/4W C RES.	
	R482	QRE141J-222Y	2.2K 1/4W C RES.	
	R483	QRE141J-221Y	220 1/4W C RES.	
	R484	QRE141J-221Y	220 1/4W C RES.	
	R485	QRE141J-103Y	10K 1/4W CARBON RE	
	R486	QRE141J-103Y	10K 1/4W CARBON RE	
	R493	QRE141J-183Y	18K 1/4W CARBON RE	
	R494	QRE141J-183Y	18K 1/4W CARBON RE	
	R497	QRE141J-104Y	100K 1/4W C RES.	
	R498	QRE141J-104Y	100K 1/4W C RES.	
	R501	QRE141J-102Y	1K 1/4W C RES.	
	R502	QRE141J-102Y	1K 1/4W C RES.	
	R541	QRE141J-105Y	1M 1/4W C RES.	
	R542	QRE141J-393Y	39K 1/4W C RES.	
	R543	QRE141J-102Y	1K 1/4W C RES.	
	R544	QRE141J-102Y	1K 1/4W C RES.	
	R545	QRE141J-203Y	20K 1/4W C RES.	
	R546	QRE141J-473Y	47K 1/4W C RES.	
	R547	QRE141J-473Y	47K 1/4W C RES.	
	R548	QRE141J-563Y	56K 1/4W C RES.	
	R549	QRE141J-563Y	56K 1/4W C RES.	
	R553	QRE141J-104Y	100K 1/4W C RES.	
	R554	QRE141J-104Y	100K 1/4W C RES.	
	R555	QRE141J-102Y	1K 1/4W C RES.	
	R556	QRE141J-102Y	1K 1/4W C RES.	
	R566	QRE141J-102Y	1K 1/4W C RES.	
	R567	QRE141J-104Y	100K 1/4W C RES.	
	R568	QRE141J-104Y	100K 1/4W C RES.	
	R569	QRE141J-221Y	220 1/4W C RES.	
	R570	QRE141J-221Y	220 1/4W C RES.	
	R571	QRE141J-103Y	10K 1/4W CARBON RE	
	R572	QRE141J-103Y	10K 1/4W CARBON RE	
	R573	QRE141J-103Y	10K 1/4W CARBON RE	
	R574	QRE141J-103Y	10K 1/4W CARBON RE	
	R575	QRE141J-103Y	10K 1/4W CARBON RE	
	R576	QRE141J-102Y	1K 1/4W C RES.	
	R577	QRE141J-102Y	1K 1/4W C RES.	

■ Electrical Parts List(Function, Tuner, Main board)

BLOCK NO 02

⚠	Item	Parts Number	Description	Area
	R578	QRE141J-103Y	10K 1/4W CARBON RE	
	R579	QRE141J-102Y	1K 1/4W C RES.	
	R580	QRE141J-103Y	10K 1/4W CARBON RE	
	R581	QRE141J-102Y	1K 1/4W C RES.	
	R582	QRE141J-102Y	1K 1/4W C RES.	
	R583	QRE141J-102Y	1K 1/4W C RES.	
	R584	QRE141J-102Y	1K 1/4W C RES.	
	R585	QRE141J-102Y	1K 1/4W C RES.	
	R586	QRE141J-103Y	10K 1/4W CARBON RE	
	R587	QRE141J-102Y	1K 1/4W C RES.	
	R588	QRE141J-103Y	10K 1/4W CARBON RE	
	R589	QRE141J-102Y	1K 1/4W C RES.	
	R590	QRE141J-223Y	22K 1/4W C RES.	
	R591	QRE141J-223Y	22K 1/4W C RES.	
	R592	QRE141J-102Y	1K 1/4W C RES.	
	R593	QRE141J-272Y	2.7K 1/4W C RES.	
	R594	QRE141J-181Y	180 1/4W C RES.	
	R595	QRE141J-181Y	180 1/4W C RES.	
	R597	QRE141J-222Y	2.2K 1/4W C RES.	
	R599	QRE141J-222Y	2.2K 1/4W C RES.	
	VR100	QVP0004-203Z	20K V.RES. I.M	EE
		OTHERS		
	J 1	QNB0008-001	ANT TERMINAL	C J
		QNB0008-001	ANT TERMINAL	U UP US UT UX UY
		QNB0014-001	ANT TERMINAL	A B E EE EN EV
	J401	QNN0132-001	PIN JACK	
	J499	GP1F32T	OPTICAL JACK	
	L 1	QQR0796-001	COIL BLOCK	A C J
		QQR0796-001	COIL BLOCK	U UP US UT UX UY
		QQR0884-001	COIL BLOCK	B E EE EN EV
	L 4	QQL231K-221Y	INDUCTOR	
	L 5	QQL231K-101Y	INDUCTOR	B E EE EN EV
	L 11	QQL231K-2R7Y	INDUCTOR	B E EE EN EV
	L 12	QQL231K-330Y	INDUCTOR	B E EN EV
	L100	QQR0522-001	NOISE FILTER	EE
	L403	QQR0779-001Z	INDUCTOR	B E EN EV
	L404	QQR0779-001Z	INDUCTOR	B E EN EV
	L405	QQR0779-001Z	INDUCTOR	B E EN EV
	L406	QQR0779-001Z	INDUCTOR	B E EN EV
	T 1	QQR0793-001	IFT	
	X 1	QAX0402-001	CRYSTAL	
	X 2	QAX0263-001Z	CRYSTAL	B E EE EN EV
	X541	QAX0283-001Z	RESONATOR I.M	
	CF 1	QAX0403-001	CERAMIC FILTER	EE
		QAX0419-001Z	C FILTER	C J
		QAX0419-001Z	C FILTER	U UP US UT UX UY
		QAX0420-001	C FILTER	A B E EN EV
	CF 2	QAX0403-001	CERAMIC FILTER	EE
		QAX0419-001Z	C FILTER	C J
		QAX0419-001Z	C FILTER	U UP US UT UX UY
		QAX0421-001	C FILTER	A B E EN EV
	CF 3	QAX0519-001Z	CERAMIC FILTER	
	CN410	QGF1016F1-19	CONNECTOR	
	CN411	QGF1201C3-21	CONNECT TERMINAL	
	CN412	QGF1201C3-21	CONNECT TERMINAL	
	CN413	QGF1201C3-17	CONNECT TERMINAL	
	CN414	QGD2501C1-03Z	SOCKET ASSY	
	CN415	QGD2501C1-04Z	SOCKET ASSY	
	CN416	QGB2501J1-10	CONNECT TERMINAL	
	CN417	QGB2501J1-07	CONNECT TERMINAL	
	CN420	QGB2501J1-10	CONNECT TERMINAL	EE
	CN421	QGB2501K2-10	CONNECT TERMINAL	EE
	EP001	E409182-001SM	EARTH TERMINAL	
	SP 3	VYSA1R4-100		
	SP 4	VYSA1R4-100		
	SP553	E3400-431	FELT SPACER	
	TH401	QAD0064-2R2Z	POSISTOR I.M	B C E EE EN EV

⚠	Item	Parts Number	Description	Area
	TH401	QAD0064-2R2Z	POSISTOR I.M	U UP US UT UX UY J
•	TU 1	QAU0034-001	FM FRONT END	A B E EN EV
		QAU0036-001	FM FRONT END	EE
		QAU0097-001	FRONT END	U UP US UT UX UY
		QAU0097-001	FRONT END	C J

■ Electrical Parts List(System control switch board)

BLOCK NO 03

⚠	Item	Parts Number	Description	Area
		I.C.S		
	IC810	MN101C23DBP	I.C(M)	
	IC811	NJU3714D	I.C(M)	
	IC812	GP1U291Q	I.C(M)	
	IC853	TA8409S	I.C(MONO-ANALOG)	
	IC854	NJU3711D	I.C(MONO-ANALOG)	
	IC901	NJM4580L	I.C(MONO-ANALOG)	U UP US UT UX UY
	IC902	BU9253AS	I.C(M)	U UP US UT UX UY
		DIODES		
	D801	1SR35-100A-T5	SI DIODE	
	D803	1SS119-02-T2	SI DIODE	
	D804	1SS133-T2	SI.DIODE	
	D920	SLR-342DC-T	L.E.D.	
	D831	MTZJ5.1B-T2		
	D832	MTZJ5.1B-T2		
	D955	SLR-342MC-T	LED I.M	
	D956	SLR-342MC-T	LED I.M	
	D957	SLR-342MC-T	LED I.M	
	D958	SLR-342MC-T	LED I.M	
	D961	1SS133-T2	SI.DIODE	
	D962	SLR-342VC-T	L.E.D.	
	D981	SLR-342MC-T	LED I.M	
	D982	SLR-342MC-T	LED I.M	
	D983	SLR-342MC-T	LED I.M	
	D984	SLR-342MC-T	LED I.M	
	D991	SLR-342MC-T	LED I.M	
	D992	SLR-342MC-T	LED I.M	
	D993	SLR-342MC-T	LED I.M	
	D1021	MTZJ5.1B-T2	ZENER DIODE	U UP US UT UX UY
	D1041	1SS133-T2	SI.DIODE	
	D1042	1SS133-T2	SI.DIODE	
		TRANSISTORS		
	Q801	2SC2668/O/-T	TRANSISTOR TAPE	
	Q802	2SC2668/O/-T	TRANSISTOR TAPE	
	Q803	DTC114ES	DIGITAL TRANSISTOR	
	Q804	DTC114ES	DIGITAL TRANSISTOR	
	Q805	DTC114ES	DIGITAL TRANSISTOR	
	Q806	DTC114ES	DIGITAL TRANSISTOR	
	Q807	DTC114ES	DIGITAL TRANSISTOR	
	Q808	DTC114ES	DIGITAL TRANSISTOR	
	Q809	DTC114ES	DIGITAL TRANSISTOR	
	Q810	DTC114ES	DIGITAL TRANSISTOR	
	Q811	DTC114ES	DIGITAL TRANSISTOR	
	Q851	KTC3199/GL/-T	TRANSISTOR	
	Q961	KRA102M-T	DIGITAL TRANSISTOR	
	Q1021	DTA114TS	DIGITAL TRANSISTOR	U UP US UT UX UY
		CAPACITORS		
	C801	QFVJ1HJ-124Z	0.12MF 50V TF CAP.	
	C803	QETC0JM-477ZM	470MF 6.3V E.CAP.	
	C804	QETN0JM-108Z	1000MF 6.3V AL E.CAP.	
	C805	QCGB1HK-102	1000PF 50V CER.CAP.	
	C806	QCGB1HK-102	1000PF 50V CER.CAP.	
	C807	QCSB1HJ-390Y	39PF 50V CER.CAP.	
	C808	QCSB1HJ-330Y	33PF 50V CER.CAP.	
	C809	QCSB1HJ-330Y	33PF 50V CER.CAP.	
	C810	QCSB1HJ-390Y	39PF 50V CER.CAP.	
	C811	QCGB1HK-102	1000PF 50V CER.CAP.	
	C812	QCSB1HJ-220	22PF 50V CER.CAP.	
	C813	QCSB1HJ-270Y	27PF 50V CER.CAP.	
	C814	QCGB1HK-102	1000PF 50V CER.CAP.	
	C815	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C816	EETB1CM-476	47MF 16V E.CAP.	
	C817	EETC1HM-226ZJC	22MF 50V E.CAP.	
	C818	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C819	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C820	QCZ0205-155	1.5MF 25V C.CAP.	
	C821	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C831	QDYB1CM-103Z		
	C832	QDYB1CM-103Z		
	C835	QCB31HK-102Z		U UP US UT UX UY
	C851	EETB1EM-106E	10MF 25V E.CAP.	
	C852	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C853	QCBB1HK-221Y	220PF 50V CER.CAP.	
	C854	EETC1EM-226ZE	22MF 25V E.CAP.	
	C855	QETB0JM-227	220MF 6.3V E.CAP.	
	C856	QETN1AM-107Z	100MF 10V AL E.CAP.	
	C971	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C972	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C1001	QCGB1HK-102	1000PF 50V CER.CAP.	A B E EN EV
	C1002	QCGB1HK-102	1000PF 50V CER.CAP.	A B E EN EV
	C1003	QDGB1HK-102Y	0.01MF 50V	B E EN EV A
		QDGB1HK-103Y	0.01MF 50V	U UP US UT UX UY
		QDGB1HK-103Y	0.01MF 50V	EE C J
	C1004	QCGB1HK-102	1000PF 50V CER.CAP.	
	C1005	QCGB1HK-102	1000PF 50V CER.CAP.	
	C1006	QCGB1HK-102	1000PF 50V CER.CAP.	
	C1021	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT UX UY
	C1022	QCGB1HK-102	1000PF 50V CER.CAP.	U UP US UT UX UY
	C1023	QCGB1HK-102	1000PF 50V CER.CAP.	U UP US UT UX UY
	C1024	QETC1HM-225ZM	2.2MF 50V E.CAP.	U UP US UT UX UY
	C1025	QCGB1HK-102	1000PF 50V CER.CAP.	U UP US UT UX UY
	C1026	QETC1HM-225ZM	2.2MF 50V E.CAP.	U UP US UT UX UY
	C1027	QCBB1HK-101Y	100PF 50V CER.CAP.	U UP US UT UX UY
	C1028	QCBB1HK-151	150PF 50V CER.CAP.	U UP US UT UX UY
	C1029	QCBB1HK-561Y	560PF 50V CER.CAP.	U UP US UT UX UY
	C1030	QETC1HM-225ZM	2.2MF 50V E.CAP.	U UP US UT UX UY
	C1031	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT UX UY
	C1032	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT UX UY
	C1033	EETB1HM-475E	4.7MF 50V E.CAP.	U UP US UT UX UY
	C1034	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	U UP US UT UX UY
	C1035	EETB1AM-107E	100MF 10V E.CAP.	U UP US UT UX UY
	C1036	QCBB1HK-820Y	82PF 50V CER.CAP.	U UP US UT UX UY
	C1037	QFVJ1HJ-333Z	0.033MF 50V CAP.	U UP US UT UX UY
	C1038	QDXB1CM-472Y	4700PF 16V C.CAP.	U UP US UT UX UY
	C1039	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT UX UY
	C1040	QDXB1CM-332Y	3300PF 16V C CAP.	U UP US UT UX UY
	C1041	QFVJ1HJ-333Z	0.033MF 50V CAP.	U UP US UT UX UY
	C1042	EETC1EM-226ZE	22MF 25V E.CAP.	U UP US UT UX UY
	C1043	QFVJ1HJ-474Z	0.47MF 50V CAP.	U UP US UT UX UY
	C1044	QDYB1CM-103Y	0.01MF 16V CER.CAP.	U UP US UT UX UY
	C1045	QETC1HM-225ZM	2.2MF 50V E.CAP.	U UP US UT UX UY
	C1050	QDYB1CM-103Y	0.01MF 16V CER.CAP.	
	C1051	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C1052	QFVJ1HJ-104Z	0.1MF 50V TF CAP.	
	C1053	QDXB1CM-222Y	2200PF 16V C CAP.	
	C1054	QDXB1CM-222Y	2200PF 16V C CAP.	
	C1055	QFLM1HJ-393Z	0.039MF 50V M CAP.	
	C1056	QFLM1HJ-393Z	0.039MF 50V M CAP.	
	C1057	QDVB1EZ-223Y	0.022MF 25V C CAP.	
	C1058	QDVB1EZ-223Y	0.022MF 25V C CAP.	
	C1059	QFLM1HJ-393Z	0.039MF 50V M CAP.	
		RESISTORS		
	R801	QRE141J-331Y	330 1/4W C RES.	
	R802	QRE141J-223Y	22K 1/4W C RES.	
	R803	QRE141J-223Y	22K 1/4W C RES.	
	R804	QRE141J-822Y	8.2K 1/4W C RES.	
	R805	QRE141J-822Y	8.2K 1/4W C RES.	
	R806	QRE141J-124Y	120K 1/4W C RES.	
	R807	QRE141J-103Y	10K 1/4W CARBON RE	
	R808	QRE141J-103Y	10K 1/4W CARBON RE	
	R809	QRE141J-103Y	10K 1/4W CARBON RE	
	R810	QRE141J-103Y	10K 1/4W CARBON RE	
	R811	QRE141J-103Y	10K 1/4W CARBON RE	
	R812	QRE141J-103Y	10K 1/4W CARBON RE	

■ Electrical Parts List(System control switch board)

BLOCK NO 03

⚠	Item	Parts Number	Description	Area
	R813	QRE141J-103Y	10K 1/4W CARBON RE	
	R814	QRE141J-103Y	10K 1/4W CARBON RE	
	R815	QRE141J-563Y	56K 1/4W C RES.	
	R816	QRE141J-563Y	56K 1/4W C RES.	
	R817	QRE141J-103Y	10K 1/4W CARBON RE	
	R818	QRE141J-103Y	10K 1/4W CARBON RE	
	R819	QRE141J-102Y	1K 1/4W C RES.	
	R820	QRE141J-102Y	1K 1/4W C RES.	
	R821	QRE141J-102Y	1K 1/4W C RES.	
	R822	QRE141J-102Y	1K 1/4W C RES.	
	R823	QRE141J-102Y	1K 1/4W C RES.	
	R824	QRE141J-102Y	1K 1/4W C RES.	
	R825	QRE141J-102Y	1K 1/4W C RES.	
	R826	QRE141J-102Y	1K 1/4W C RES.	
	R827	QRE141J-103Y	10K 1/4W CARBON RE	
	R828	QRE141J-201Y	200 1/4W C.RES.	
	R829	QRE141J-201Y	200 1/4W C.RES.	
	R830	QRE141J-201Y	200 1/4W C.RES.	
	R831	QRE141J-104Y	100K 1/4W C RES.	
	R832	QRE141J-104Y	100K 1/4W C RES.	
	R833	QRE141J-104Y	100K 1/4W C RES.	
	R834	QRE141J-104Y	100K 1/4W C RES.	
	R835	QRE141J-104Y	100K 1/4W C RES.	
	R836	QRE141J-104Y	100K 1/4W C RES.	
	R837	QRE141J-104Y	100K 1/4W C RES.	
	R838	QRE141J-102Y	1K 1/4W C RES.	
	R839	QRE141J-102Y	1K 1/4W C RES.	
	R840	QRE141J-103Y	10K 1/4W CARBON RE	
	R841	QRE141J-103Y	10K 1/4W CARBON RE	
	R842	QRE141J-103Y	10K 1/4W CARBON RE	
	R843	QRE141J-103Y	10K 1/4W CARBON RE	
	R844	QRE141J-103Y	10K 1/4W CARBON RE	
	R845	QRE141J-102Y	1K 1/4W C RES.	
	R846	QRE141J-102Y	1K 1/4W C RES.	
	R847	QRE141J-102Y	1K 1/4W C RES.	
	R848	QRE141J-102Y	1K 1/4W C RES.	
	R849	QRE141J-102Y	1K 1/4W C RES.	
	R851	QRE141J-562Y	390 1/4W C RES.	
	R852	QRE141J-3R9Y	3.9 1/4W C RES.	
	R853	QRE141J-183Y	18K 1/4W CARBON RE	
	R854	QRE141J-332Y	3.3K 1/4W C RES.	
	R856	QRE141J-151Y	150 1/4W C RES.	
	R857	QRE141J-391Y		
	R920	QRE141J-201Y	200 1/4W C.RES.	
	R921	QRE141J-102Y	1K 1/4W C RES.	
	R922	QRE141J-102Y	1K 1/4W C RES.	
	R923	QRE141J-122Y	1.2K 1/4W C RES.	
	R924	QRE141J-152Y	1.5K 1/4W CARBON RE	
	R925	QRE141J-222Y	2.2K 1/4W C RES.	
	R926	QRE141J-272Y	2.7K 1/4W C RES.	
	R927	QRE141J-392Y	3.9K 1/4W C RES.	
	R928	QRE141J-562Y	5.6K 1/4W C RES.	
	R931	QRE141J-102Y	1K 1/4W C RES.	
	R932	QRE141J-102Y	1K 1/4W C RES.	
	R933	QRE141J-122Y	1.2K 1/4W C RES.	
	R934	QRE141J-152Y	1.5K 1/4W CARBON RE	
	R935	QRE141J-222Y	2.2K 1/4W C RES.	
	R936	QRE141J-272Y	2.7K 1/4W C RES.	
	R937	QRE141J-392Y	3.9K 1/4W C RES.	
	R938	QRE141J-562Y	5.6K 1/4W C RES.	
	R939	QRE141J-103Y	10K 1/4W CARBON RE	
	R940	QRE141J-183Y	18K 1/4W CARBON RE	UX
		QRE141J-563Y	56K 1/4W C RES.	B C E EN EV
		QRE141J-563Y	56K 1/4W C RES.	J U UP US UT
	R941	QRE141J-102Y	1K 1/4W C RES.	
	R942	QRE141J-102Y	1K 1/4W C RES.	
	R943	QRE141J-122Y	1.2K 1/4W C RES.	
	R944	QRE141J-152Y	1.5K 1/4W CARBON RE	
	R945	QRE141J-153Y	15K 1/4W C RES.	
	R946	QRE141J-103Y	10K 1/4W CARBON RE	
	R947	QRE141J-183Y	18K 1/4W CARBON RE	UY
		QRE141J-563Y	56K 1/4W C RES.	C EE J
	R948	QRE141J-104Y	100K 1/4W C RES.	
	R949	QRE141J-104Y	100K 1/4W C RES.	
	R951	QRE141J-102Y	1K 1/4W C RES.	
	R952	QRE141J-103Y	10K 1/4W CARBON RE	
	R953	QRE141J-183Y	18K 1/4W CARBON RE	
	R954	QRE141J-563Y	56K 1/4W C RES.	A C J U UP US UT
	R955	QRE141J-201Y	200 1/4W C.RES.	
	R956	QRE141J-201Y	200 1/4W C.RES.	
	R957	QRE141J-201Y	200 1/4W C.RES.	
	R958	QRE141J-201Y	200 1/4W C.RES.	
	R961	QRE141J-201Y	200 1/4W C.RES. I.M	
	R962	QRE141J-472Y	4.7K 1/4W C RES.	
	R963	QRE141J-102Y	1K 1/4W C RES.	
	R964	QRE141J-122Y	1.2K 1/4W C RES.	
	R981	QRE141J-201Y	200 1/4W C.RES.	
	R982	QRE141J-201Y	200 1/4W C.RES.	
	R983	QRE141J-201Y	200 1/4W C.RES.	
	R984	QRE141J-201Y	200 1/4W C.RES.	
	R985	QRE141J-103Y	10K 1/4W CARBON RE	
	R986	QRE141J-183Y	18K 1/4W CARBON RE	
	R987	QRE141J-563Y	56K 1/4W C RES.	
	R992	QRE141J-152Y	1.5K 1/4W CARBON RE	
	R993	QRE141J-222Y	2.2K 1/4W C RES.	
	R994	QRE141J-272Y	2.7K 1/4W C RES.	
	R995	QRE141J-392Y	3.9K 1/4W C RES.	
	R996	QRE141J-562Y	5.6K 1/4W C RES.	
	RA801	QRB169J-104	100K 1/10WRES. ARR	
	RA802	QRB169J-104	100K 1/10WRES. ARR	
	R1021	QRE141J-472Y	4.7K 1/4W C RES.	U UP US UT UX UY
	R1022	QRE141J-472Y	4.7K 1/4W C RES.	U UP US UT UX UY
	R1023	QRE141J-221Y	220 1/4W C RES.	U UP US UT UX UY
	R1024	QRE141J-103Y	10K 1/4W CARBON RE	U UP US UT UX UY
	R1025	QRE141J-104Y	100K 1/4W C RES.	U UP US UT UX UY
	R1026	QRE141J-563	56K 1/4W C RES.	U UP US UT UX UY
	R1027	QRE141J-302Y	3K 1/4W C RES.	U UP US UT UX UY
	R1028	QRE141J-104Y	100K 1/4W C RES.	U UP US UT UX UY
	R1029	QRE141J-221Y	220 1/4W C RES.	U UP US UT UX UY
	R1030	QRE141J-221Y	220 1/4W C RES.	U UP US UT UX UY
	R1031	QRE141J-203Y	20K 1/4W C RES.	U UP US UT UX UY
	R1032	QRE141J-203Y	20K 1/4W C RES.	U UP US UT UX UY
	R1033	QRE141J-822Y	8.2K 1/4W C RES.	U UP US UT UX UY
	R1034	QRE141J-103Y	10K 1/4W CARBON RE	U UP US UT UX UY
	R1035	QRE141J-393Y	39K 1/4W C RES.	U UP US UT UX UY
	R1036	QRE141J-472Y	4.7K 1/4W C RES.	U UP US UT UX UY
	R1037	QRE141J-153Y	15K 1/4W C RES.	U UP US UT UX UY
	R1038	QRE141J-472Y	4.7K 1/4W C RES.	U UP US UT UX UY
	R1039	QRE141J-103Y	10K 1/4W CARBON RE	U UP US UT UX UY
	R1040	QRE141J-333Y	33K 1/4W C RES.	U UP US UT UX UY
	R1041	QRE141J-823Y	82K 1/4W C RES.	U UP US UT UX UY
	R1042	QRE141J-271Y	270 1/4W C RES.	U UP US UT UX UY
	R1051	QRJ146J-4R7X	4.7 1/4W UNF.CARBON	
	R1052	QRJ146J-4R7X	4.7 1/4W UNF.CARBON	
	R1053	QRE141J-393Y	39K 1/4W C RES.	
	R1054	QRE141J-393Y	39K 1/4W C RES.	
	R1055	QRE141J-102Y	1K 1/4W C RES.	
	VR901	QVQ0045-B54	50K VARIABLE R	U UP US UT UX UY
		OTHERS		
		E3400-439	FELT SPACER	
	J 81	QNB0038-001	SPK.TERMINAL	C EE J U UP
		QNB0038-001	SPK.TERMINAL	US UT UX UY
		QNB0088-001	SPEAKER TERMINAL	B E EN EV A
	J 82	QNN0017-001	PIN JACK	

■ Electrical Parts List(System control switch board)

BLOCK NO 03

⚠	Item	Parts Number	Description	Area
	J 83	QNN0197-001	PIN JACK	
	L801	QQL173K-470Z	INDUCTOR	
	L802	QQL231K-220Y	INDUCTOR	
	L803	QQL29BJ-100Z	INDUCTOR	
	L804	QQR0779-001Z	INDUCTOR	
	L805	QQL173K-470Z	INDUCTOR	
	L806	QQL173K-470Z	INDUCTOR	
	L808	QQRO0779-001Z	INDUCTOR	U UP US UT UX UY
	L851	QQL29BJ-100Z	INDUCTOR	
	L852	QQR0779-001Z	INDUCTOR	
	S921	QSW0674-001Z	TACT SWITCH	
	S922	QSW0674-001Z	TACT SWITCH	
	S923	QSW0674-001Z	TACT SWITCH	
	S924	QSW0674-001Z	TACT SWITCH	
	S925	QSW0674-001Z	TACT SWITCH	
	S926	QSW0674-001Z	TACT SWITCH	
	S927	QSW0674-001Z	TACT SWITCH	
	S928	QSW0674-001Z	TACT SWITCH	
	S931	QSW0674-001Z	TACT SWITCH	
	S932	QSW0674-001Z	TACT SWITCH	
	S933	QSW0674-001Z	TACT SWITCH	
	S934	QSW0674-001Z	TACT SWITCH	
	S935	QSW0674-001Z	TACT SWITCH	
	S936	QSW0674-001Z	TACT SWITCH	
	S937	QSW0674-001Z	TACT SWITCH	
	S938	QSW0674-001Z	TACT SWITCH	
	S939	QSW0674-001Z	TACT SWITCH	
	S941	QSW0674-001Z	TACT SWITCH	B E EN EV
	S942	QSW0674-001Z	TACT SWITCH	B E EN EV
	S943	QSW0674-001Z	TACT SWITCH	B E EN EV
	S944	QSW0674-001Z	TACT SWITCH	B E EN EV
	S945	QSW0674-001Z	TACT SWITCH	
	S946	QSW0674-001Z	TACT SWITCH	
	S948	QSW0518-001	PUSH SWITCH	
	S949	QSW0518-001	PUSH SWITCH	
	S951	QSW0674-001Z	TACT SWITCH	
	S952	QSW0674-001Z	TACT SWITCH	
	S953	QSW0674-001Z	TACT SWITCH	
	S963	QSW0674-001Z	TACT SWITCH	
	S985	QSW0674-001Z	TACT SWITCH	
	S986	QSW0674-001Z	TACT SWITCH	
	S992	QSW0674-001Z	TACT SWITCH	
	S993	QSW0674-001Z	TACT SWITCH	
	S994	QSW0674-001Z	TACT SWITCH	
	S995	QSW0674-001Z	TACT SWITCH	
	S996	QSW0674-001Z	TACT SWITCH	
	S997	QSW0674-001Z	TACT SWITCH	
	X801	QAX0416-001Z	CERA LOCK	
	X802	QAX0401-001	CRYSTAL	
	CN115	QGB2510K2-11	CONNECTOR	
	CN810	QGF1201F3-21	VMC0332-R21	
	CN811	QGF1201F3-23	CONNECTOR	
	CN812	QGF1201F3-11	CONNECTOR	
	CN813	QGF1016F1-09	CONNECT TERMINAL	
	CN814	QGD2501C1-04Z	SOCKET ASSY	
	CN815	QGD2501C1-03Z	SOCKET ASSY	
	CN816	QGD2501C1-05Z	SOCKET ASSY	
	CN817	QGF1201C3-10	CONNECTOR	
	CN856	QGF1201C3-21	CONNECT TERMINAL	
	CN857	QGF1201C3-23	CONNECTOR	
	CN858	QGD2501C1-05Z	SOCKET ASSY	U UP US UT UX UY
		QGD2501C1-05Z	SOCKET ASSY	A B E EN EV
	CN859	QGF1201C3-10	CONNECTOR	
	CN860	QGF1201C3-21	CONNECT TERMINAL	
	CN861	QGF1201C3-17	CONNECT TERMINAL	
	CN862	QGF1201C3-21	CONNECT TERMINAL	
	CN863	QGA2501C1-02	2P CONNECTOR	

⚠	Item	Parts Number	Description	Area
	CN921	QGF1016F1-09	CONNECT TERMINAL	
	CN971	QGF1201F3-10	CONNECTOR	
	FL801	QLF0059-001	FLUORESCENT DISPLAY	TUB
	FW901	QUM134-27DGZ4	FLAT WIRE	U UP US UT UX UY
		QUM134-24DGZ	FLAT WIRE	A B E EN EV
		QUM134-24DGZ	FLAT WIRE	EE C J
	FW902	QUM135-10DGZ4	FLAT WIRE	U UP US UT UX UY
	FW951	QUM027-08DGZ3	FLAT WIRE	
	FW961	QUM025-14DGZ3	FLAT WIRE	
	FW971	QUM026-07Z3Z3	FLAT WIRE	
	FW972	QUM025-07Z3Z3	FLAT WIRE	
	JS971	QSW0538-001	ROTARY SWITCH	
	J1001	QNS0030-001	JACK	
	J1021	QNS0080-001	MICROPHONE JACK	U UP US UT UX UY
	J1022	QNS0080-001	MICROPHONE JACK	U UP US UT UX UY
	L1001	QQL231K-470Y	INDUCTOR	A B E EN EV
	L1002	QQL231K-470Y	INDUCTOR	A B E EN EV
	L1003	QQL0779-001Z	INDUCTOR I.M	A B E EN EV
	TW101	QUB230-10A6HP		A B E EN EV
	PW 1	QUB110-19DMPP		
	RY 1	QSK0095-001	RELAY	
	RY 2	QSK0095-001	RELAY	
	SP801	VYH7653-001	I.C.PROTECTOR	

■ CD Servo Control P.C.B.

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 251	NCS21HJ-100X	C CAPACITOR	10PF 5% 50V	
	C 252	NCS21HJ-100X	C CAPACITOR	10PF 5% 50V	
	C 253	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 254	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 255	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 281	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 291	QERF1AM-476Z	E CAPACITOR	47MF 20% 10V	
	C 601	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 602	NCB21HK-102X	C CAPACITOR	1000PF 10% 50V	
	C 603	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 604	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 605	NCS21HJ-271X	C CAPACITOR	270PF 5% 50V	
	C 606	NCS21HJ-181X	C CAPACITOR	180PF 5% 50V	
	C 607	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 608	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 610	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 611	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 612	QER41HM-105	E CAPACITOR	1.0MF 20% 50V	
	C 613	NCS21HJ-101X	C CAPACITOR	100PF 5% 50V	
	C 614	NCB21HK-273X	C CAPACITOR	.027MF 10% 50V	
	C 615	NCB21HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 616	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 617	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	C 621	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 623	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 624	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 631	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 632	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 633	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 651	NCS21HJ-120X	C CAPACITOR	12PF 5% 50V	
	C 652	NCS21HJ-150X	C CAPACITOR	15PF 5% 50V	
	C 653	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 654	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 655	QER41AM-227	E CAPACITOR	220MF 20% 10V	
	C 656	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 657	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 658	NCB21HK-222X	C CAPACITOR	2200PF 10% 50V	
	C 661	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 662	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 663	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 664	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 665	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 666	NCS21HJ-471X	C CAPACITOR	470PF 5% 50V	
	C 667	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 668	NCB21HK-473X	C CAPACITOR	.047MF 10% 50V	
	C 671	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 672	QER41AM-107	E CAPACITOR	100MF 20% 10V	
	C 801	NCB21HK-822X	C CAPACITOR	8200PF 10% 50V	
	C 802	NCB21HK-152X	C CAPACITOR	1500PF 10% 50V	
	C 811	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 812	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 813	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 814	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 821	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 822	QER41AM-227	E CAPACITOR	220MF 20% 10V	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 851	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 852	QER41CM-106	E CAPACITOR	10MF 20% 16V	
	C 855	NCB21EK-104X	C CAPACITOR	.10MF 10% 25V	
	C 859	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	C 860	NCF21CZ-105X	C CAPACITOR	1.0MF +80:-20%	
	CN151	QGF1016F1-15	15FFC CONNECTOR	VIDEO CD	
	CN152	QGA2001F1-12	12P CN RIG	VIDEO CD	
	CN601	QGF1016F1-15	15FFC CONNECTOR	TRAVERSE	
	CN651	QGF1016F1-19	CONNECTOR	MAIN	
	CN652	QGF1016F1-05	CONNECTOR	OSD	
	CN653	QGF1016F1-13	CONNECTOR	CD TEXT	
	CN801	QGA2001C1-06	6P PLUG ASSY	TRAVERSE	
	CN851	QGD2503F1-03	SOCKET	DISC DETECTION	
	CN854	QGB2016K1-07	CONNECTOR	TRAY SWITCH	
	CN855	QGB2012K2-10	CONNECTOR	CAM SWITCH	
	IC251	UPD78055GCA37	IC	MICOM	
	IC601	AN8806SB-W	IC	RF AMP	
	IC651	MN35510	IC	DSP & DAC	
	IC801	BA6897FP-W	IC	PU DRIVE	
	IC851	TA8409S	IC	L MOTOR DRIVE	
	IC852	TA8409S	IC	R MOTOR DRIVE	
	L 851	QQL01BK-100Z	INDUCTOR	VS DE-COUPLE	
	L 853	QQL01BK-100Z	INDUCTOR	L MOTOR	
	L 854	QQL01BK-100Z	INDUCTOR	R MOTOR	
	Q 291	2SB1357/EF/-T	TRANSISTOR	/P.ON	
	Q 631	2SA1037AK/RS/-X	TRANSISTOR	APC	
	Q 842	DTA144ES-T	TRANSISTOR	/DISC	
	R 251	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 252	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 253	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 254	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 255	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 256	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 257	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 258	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 259	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 260	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 261	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 262	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 263	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 264	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 265	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 266	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 267	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 268	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 269	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 274	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 275	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 276	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 277	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 278	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 279	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 281	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 282	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 283	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 284	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 285	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 286	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 287	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 288	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 291	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 292	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 293	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 601	NRSA02J-274X	MG RESISTOR	270K 5% 1/10W	
	R 602	NRSA02J-154X	MG RESISTOR	150K 5% 1/10W	
	R 603	NRSA02J-273X	MG RESISTOR	27K 5% 1/10W	
	R 604	NRSA02J-104X	MG RESISTOR	100K 5% 1/10W	
	R 605	NRSA02J-154X	MG RESISTOR	150K 5% 1/10W	
	R 606	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 607	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 611	NRSA02J-113X	MG RESISTOR	11K 5% 1/10W	
	R 612	NRSA02J-125X	MG RESISTOR	1.2M 5% 1/10W	
	R 631	NRSA02J-2R2X	MG RESISTOR	2.2 5% 1/10W	
	R 632	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 634	NRSA02J-120X	MG RESISTOR	12 5% 1/10W	
	R 635	NRSA02J-121X	MG RESISTOR	120 5% 1/10W	
	R 636	NRSA02J-910X	MG RESISTOR	91 5% 1/10W	
	R 651	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 652	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 657	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 658	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 661	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 662	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	
	R 663	NRSA02J-124X	MG RESISTOR	120K 5% 1/10W	
	R 665	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 666	NRSA02J-155X	MG RESISTOR	1.5M 5% 1/10W	
	R 667	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 671	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 672	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 673	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 674	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 675	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 676	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 677	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 678	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 679	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 680	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 681	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 682	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 683	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 684	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 685	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 686	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 687	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 688	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 689	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 690	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 691	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 692	NRSA02J-101X	MG RESISTOR	100 5% 1/10W	
	R 693	NRSA02J-471X	MG RESISTOR	470 5% 1/10W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 694	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 801	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 802	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	R 803	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 804	NRSA02J-154X	MG RESISTOR	150K 5% 1/10W	
	R 805	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 806	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 807	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 808	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 811	NRSA02J-473X	MG RESISTOR	47K 5% 1/10W	
	R 812	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 831	NRSA02J-151X	MG RESISTOR	150 5% 1/10W	
	R 832	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 842	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	R 851	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 852	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 853	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 854	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 855	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 856	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 857	NRSA02J-272X	MG RESISTOR	2.7K 5% 1/10W	
	R 859	NRSA02J-181X	MG RESISTOR	180 5% 1/10W	
	R 861	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 862	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 863	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 864	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 865	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 866	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 880	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 881	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 882	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 883	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 884	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 885	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 886	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 887	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	W 601	QUB220-07HPDT	SIN TWIST WIRE	D.GND	
	X 251	QAX0360-001Z	CRYSTAL	FOR IC251	
	X 651	QAX0413-001Z	CRYSTAL	FOR IC651	

■ CD Changer Mechanism Switch P.C.B.

BLOCK NO. 05

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN804	QG82016J1-07	CONNECTOR		
	SW 1	QSW0507-001	LEVER SWITCH		
	SW 2	QSW0507-001	LEVER SWITCH		
	SW 3	QSW0507-001	LEVER SWITCH		
	SW 4	QSW0507-001	LEVER SWITCH		
	SW 5	QSW0507-001	LEVER SWITCH		
	SW 6	QSW0507-001	LEVER SWITCH		

■ Cassette Mechanism Control P.C.B.

BLOCK NO. 06☐☐☐☐☐☐

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 101	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V	
	C 102	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	C 103	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V	
	C 104	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 105	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 106	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 107	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 108	NCB21HK-393X	C CAPACITOR	.039MF 10% 50V	
	C 110	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 111	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 112	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 113	NCB21HK-332X	C CAPACITOR	3300PF 10% 50V	
	C 114	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 115	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	
	C 116	NCB21HK-822X	C CAPACITOR	8200PF 10% 50V	
	C 117	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 119	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	
	C 120	NCS21HJ-330X	C CAPACITOR	33PF 5% 50V	
	C 201	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V	
	C 202	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	C 203	NCS21HJ-561X	C CAPACITOR	560PF 5% 50V	
	C 204	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 205	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 206	NCB21HK-333X	C CAPACITOR	.033MF 10% 50V	
	C 207	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 208	NCB21HK-393X	C CAPACITOR	.039MF 10% 50V	
	C 210	NCS21HJ-221X	C CAPACITOR	220PF 5% 50V	
	C 211	QEK41HM-104	E CAPACITOR	.10MF 20% 50V	
	C 212	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 213	NCB21HK-332X	C CAPACITOR	3300PF 10% 50V	
	C 214	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 215	NCB21HK-153X	C CAPACITOR	.015MF 10% 50V	
	C 216	NCB21HK-822X	C CAPACITOR	8200PF 10% 50V	
	C 217	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 219	NCB21HK-563X	C CAPACITOR	.056MF 10% 50V	
	C 220	NCS21HJ-330X	C CAPACITOR	33PF 5% 50V	
	C 301	QEK41CM-106	E CAPACITOR	10MF 20% 16V	
	C 302	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 303	QEK41CM-226	E CAPACITOR	22MF 20% 16V	
	C 304	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 305	NCB21HK-393X	C CAPACITOR	.039MF 10% 50V	
	C 306	QEK40JM-227	E CAPACITOR	220MF 20% 6.3V	
	C 308	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V	
	C 309	NCB21HK-562X	C CAPACITOR	5600PF 10% 50V	
	C 310	NCB21HK-223X	C CAPACITOR	.022MF 10% 50V	
	C 311	NCB21HK-682X	C CAPACITOR	6800PF 10% 50V	
	C 313	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 314	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 315	QCZ0205-155Z	ML C CAPACITOR	1.5MF	
	C 316	QFG32AJ-103Z	PP CAPACITOR	.010MF 5% 100V	
	C 318	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 319	QFG32AJ-821Z	TF CAPACITOR	820PF 5% 100V	
	C 321	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 322	QFG32AJ-152Z	M CAPACITOR	1500PF 5% 100V	
	C 327	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 328	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 329	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 330	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 332	NCS21HJ-151X	C CAPACITOR	150PF 5% 50V	
	C 335	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 336	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 337	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 338	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 339	QEK41CM-476	E CAPACITOR	47MF 20% 16V	
	C 340	NCB21HK-103X	C CAPACITOR	.010MF 10% 50V	
	C 341	QEKJ1AM-107Z	E CAPACITOR	100MF 20% 10V	
	C 342	QEK41EM-475	E CAPACITOR	4.7MF 20% 25V	
	C 343	QET41CM-106	E CAPACITOR	10MF 20% 16V	
	C 344	NCB21HK-472X	C CAPACITOR	4700PF 10% 50V	
	C 345	NCS21HJ-331X	C CAPACITOR	330PF 5% 50V	
	CN301	QGF1205F1-06	CONNECTOR		
	CN302	QGF1205F1-06	CONNECTOR		
	CN303	QGB2011M1-10	PWB CONECTOR		
	CN304	QGB2011M1-10	PWB CONECTOR		
	CN305	QGF1205F1-10	CONNECTOR		
	CN306	QGF1205F1-11	CONNECTOR		
	D 307	HZM5.1NB2-X	CHIP Z DIODE		
	D 308	HZM5.1NB2-X	CHIP Z DIODE		
	D 309	MA704A-X	S.K.DIODE		
	IC301	BA3126N	IC		
	IC302	AN7345K	IC		
	IC303	BU4094BCF-X	IC		
	IC304	BU4094BCF-X	IC		
	L 301	QQR0620-001	OSC COIL(BIAS)		
	L 303	QQL01BK-100Z	INDUCTOR		
	Q 102	DTC144TKA-X	TRANSISTOR		
	Q 103	DTC144EKA-X	TRANSISTOR		
	Q 105	2SC3576-JVC-T	TRANSISTOR		
	Q 202	DTC144TKA-X	TRANSISTOR		
	Q 203	DTC144EKA-X	TRANSISTOR		
	Q 205	2SC3576-JVC-T	TRANSISTOR		
	Q 302	2SC2001/K/-T	TRANSISTOR		
	Q 303	2SC2001/K/-T	TRANSISTOR		
	Q 304	2SC3576-JVC-T	TRANSISTOR		
	Q 305	2SC3576-JVC-T	TRANSISTOR		
	Q 306	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 307	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 308	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 309	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 312	2SB562/C/-T	TRANSISTOR		
	Q 313	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 314	2SB562/C/-T	TRANSISTOR		
	Q 315	2SC2412K/RS/-X	CHIP TRANSISTOR		
	Q 316	2SA952/LK/-T	TRANSISTOR		
	Q 317	DTC124EKA-X	TRANSISTOR		
	Q 321	DTC144EKA-X	TRANSISTOR		
	Q 322	DTC144EKA-X	TRANSISTOR		
	Q 323	2SC2412K/RS/-X	CHIP TRANSISTOR		
	R 102	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 103	NRSA02J-183X	MG RESISTOR	18K 5% 1/10W	

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 105	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 106	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 107	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 108	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 109	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 111	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 112	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 113	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 114	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 115	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 117	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 118	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 119	NRSA02J-203X	MG RESISTOR	20K 5% 1/10W	
	R 120	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 121	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 202	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 203	NRSA02J-183X	MG RESISTOR	18K 5% 1/10W	
	R 205	NRSA02J-220X	MG RESISTOR	22 5% 1/10W	
	R 206	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 207	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 208	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 209	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 211	NRSA02J-562X	MG RESISTOR	5.6K 5% 1/10W	
	R 212	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 213	NRSA02J-271X	MG RESISTOR	270 5% 1/10W	
	R 214	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 215	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 217	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 218	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 219	NRSA02J-203X	MG RESISTOR	20K 5% 1/10W	
	R 220	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 221	NRSA02J-122X	MG RESISTOR	1.2K 5% 1/10W	
	R 301	NRS181J-221X	MG RESISTOR	220 5% 1/8W	
	R 302	NRS181J-101X	MG RESISTOR	100 5% 1/8W	
	R 304	NRSA02J-393X	MG RESISTOR	39K 5% 1/10W	
	R 305	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 306	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 307	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 308	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 309	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 310	NRS181J-820X	MG RESISTOR	82 5% 1/8W	
	R 311	NRS181J-820X	MG RESISTOR	82 5% 1/8W	
	R 313	NRSA02J-3R3X	MG RESISTOR	3.3 5% 1/10W	
	R 314	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 315	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 316	NRSA02J-223X	MG RESISTOR	22K 5% 1/10W	
	R 317	NRSA02J-100X	MG RESISTOR	10 5% 1/10W	
	R 318	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 319	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 321	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 322	NRSA02J-152X	MG RESISTOR	1.5K 5% 1/10W	
	R 327	NRSA02J-474X	MG RESISTOR	470K 5% 1/10W	
	R 328	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 329	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 330	NRSA02J-0R0X	MG RESISTOR	5% 1/10W	

BLOCK NO. 06

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 335	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 336	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 338	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 339	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 341	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 343	NRSA02J-0R0X	MG RESISTOR	5% 1/10W	
	R 345	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 346	NRSA02J-0R0X	MG RESISTOR	5% 1/10W	
	R 347	NRSA02J-392X	MG RESISTOR	3.9K 5% 1/10W	
	R 348	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 350	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	R 351	NRSA02J-151X	MG RESISTOR	150 5% 1/10W	
	R 353	NRSA02J-472X	MG RESISTOR	4.7K 5% 1/10W	
	R 354	NRSA02J-151X	MG RESISTOR	150 5% 1/10W	
	R 355	NRSA02J-332X	MG RESISTOR	3.3K 5% 1/10W	
	R 357	NRSA02J-103X	MG RESISTOR	10K 5% 1/10W	
	R 358	NRSA02J-222X	MG RESISTOR	2.2K 5% 1/10W	
	R 359	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 360	NRSA02J-433X	MG RESISTOR	43K 5% 1/10W	
	R 361	NRSA02J-183X	MG RESISTOR	18K 5% 1/10W	
	R 362	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 363	NRSA02J-183X	MG RESISTOR	18K 5% 1/10W	
	R 364	NRSA02J-433X	MG RESISTOR	43K 5% 1/10W	
	R 365	NRSA02J-203X	MG RESISTOR	20K 5% 1/10W	
	R 366	NRSA02J-123X	MG RESISTOR	12K 5% 1/10W	
	R 367	NRSA02J-102X	MG RESISTOR	1.0K 5% 1/10W	
	R 368	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 369	NRSA02J-391X	MG RESISTOR	390 5% 1/10W	
	R 371	NRS181J-222X	MG RESISTOR	2.2K 5% 1/8W	
	R 374	NRSA02J-912X	MG RESISTOR	9.1K 5% 1/10W	
	R 375	NRSA02J-683X	MG RESISTOR	68K 5% 1/10W	
	R 376	NRS181J-6R8X	MG RESISTOR	6.8 5% 1/8W	
	VR101	QVP0008-503Z	SEMI V RESISTOR		
	VR201	QVP0008-503Z	SEMI V RESISTOR		
	VR301	QVP0008-103Z	SEMI V RESISTOR		
	WIRE	VWS304-10A13K	FLAT WIRE		

■ Cassette Mechanism Switch P.C.B.

BLOCK NO. 07

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN 1	QGB2011L1-10	10P PLUG ASSY		
	D 1	1SR139-100-T2	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	QNZ0104-001	POST PIN		
	SW 2	QSW0832-001	CASSETTE SWITCH	TAPE	
	SW 4	QSW0832-001	CASSETTE SWITCH	70U	
	SW 6	QSW0507-001	SWITCH		

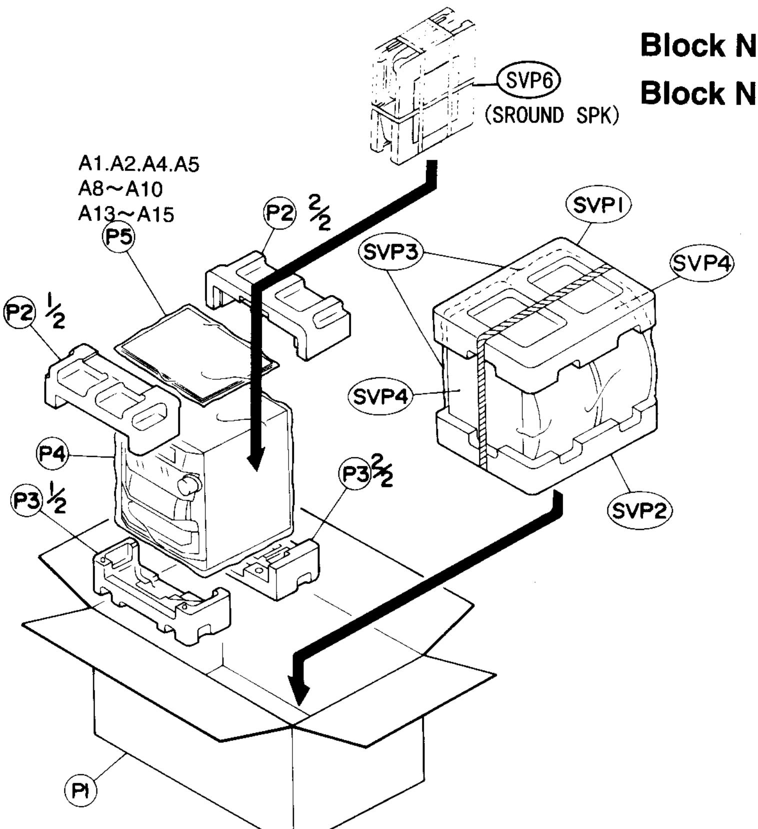
BLOCK NO. 08

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CN 1	QGB2011L1-10	10P PLUG ASSY		
	D 1	1SR139-100-T2	SI DIODE		
	IC 1	SG-105F3-BB,C	PHOTO SENSER		
	P 1	QNZ0104-001	POST PIN		
	SW 1	QSW0832-001	CASSETTE SWITCH	R.REC	
	SW 2	QSW0832-001	CASSETTE SWITCH	TAPE	
	SW 4	QSW0832-001	CASSETTE SWITCH	70U	
	SW 5	QSW0832-001	CASSETTE SWITCH	F.REC	
	SW 6	QSW0507-001	SWITCH		

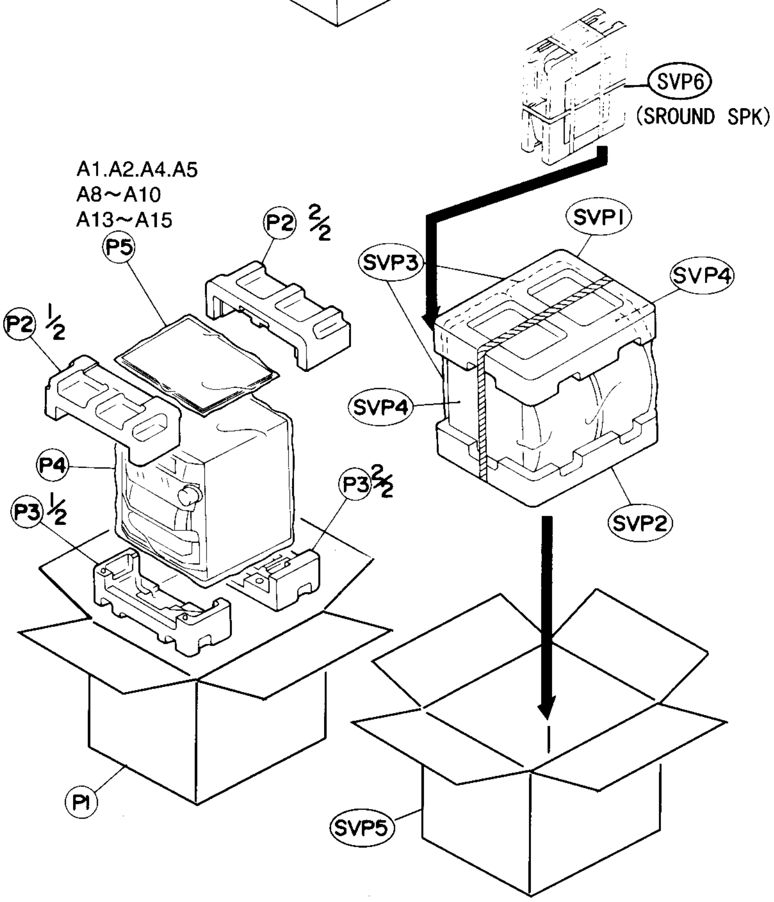
Packing Materials and Accessories Parts List

(MX-J70)
(MX-J75R)
(MX-J76)

Block No. M5MM
Block No. M6MM


SVP6
(SROUND SPK)
A1.A2.A4.A5
A8~A10
A13~A15
P5
P2 2/2
SVP1
SVP3
SVP4
P2 1/2
SVP4
P4
P3 2/2
P3 1/2
SVP2
P1

(CA-MXJ70)
(CA-MXJ75R)


SVP6
(SROUND SPK)
A1.A2.A4.A5
A8~A10
A13~A15
P2 2/2
SVP1
P5
SVP3
SVP4
P2 1/2
SVP4
P4
P3 2/2
P3 1/2
SVP2
P1
SVP5

■ Packing Parts List

BLOCK NO M5MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	P 1	GV20037-004A	PACKING CASE	1	MX-J70	J C
		GV20037-005A	PACKING CASE	1	MX-J76	C
		GV20042-004A	PACKING CASE	1	CA-MXJ70	A
		GV20042-005A	PACKING CASE	1	CA-MXJ70	U UP US UT
		GV20037-006A	PACKING CASE	1	MX-J75R	EE
		GV20042-005A	PACKING CASE	1	CA-MXJ70	UX UY
		GV20042-006A	PACKING CASE	1	CA-MXJ75R	
	P 2	GV10016-003A	UPPER CUSHION	2	MX-J75R/MX-J70/MX-J76	
		GV10018-002A	UPPER CUSHION	2	CA-MXJ75R/CA-MXJ70	
	P 3	GV10017-002A	BOTTOM CUSHION	2	MX-J75R/MX-J70/MX-J76	
		GV10019-002A	BOTTOM CUSHION	2	CA-MXJ75R/CA-MXJ70	
	P 4	QPC06506515P	POLY BAG	1		
	P 5	QPC02503515P	POLY BAG	1		
	SVP1	720-TMXJ70-00	SPEAKER CUSHION (UPPER)	1		
	SVP2	720-BMXJ70-00	SPEAKER CUSHION (BOTTOM)	1		
	SVP3	700-120034-20	POLY BAG	1		
	SVP5	GV20037-007A	SPEAKER PACKING CASE	1	CA-MXJ70	
		GV20037-008A	SPEAKER PACKING CASE	1	CA-MXJ75R	

■ Accessories Parts List

BLOCK NO M6MM

⚠	Item	Parts Number	Parts Name	Q'ty	Description	Area
	A 1	GVT0013-001A	INST BOOK MX-J70	1	ENG FRE	J
		GVT0013-002A	INST BOOK MX-J76	1	ENG FRE	C
		GVT0013-002A	INST BOOK MX-J70	1	ENG	C
		GVT0013-003A	INST BOOK CA-MXJ70	1	ENG SPA CHI POR	U
		GVT0013-003A	INST BOOK CA-MXJ70	1	ENG CHI	US
		GVT0013-003A	INST BOOK CA-MXJ70	1	CHI	UT
		GVT0013-003A	INST BOOK CA-MXJ70	1	ARA	UX
		GVT0013-003A	INST BOOK CA-MXJ70	1	SPA	UY
		GVT0013-004A	INST BOOK CA-MXJ70	1	KOR	UP
		GVT0013-005A	INST BOOK CA-MXJ70	1	ENG	A
		GVT0013-006A	INST BOOK CA-MXJ75R	1	ENG GER FRE DUT SPA ITA	E
		GVT0013-007A	INST BOOK CA-MXJ75R	1	GER FRE DUT SWE FIN DAN	EN
		GVT0013-008A	INST BOOK CA-MXJ75R	1	ENG	B
		GVT0013-009A	INST BOOK CA-MXJ75R	1	ENG POL HUN CZE	EV
		GVT0013-010A	INST BOOK CA-MXJ75R	1	RUS	EE
	A 2	BT-20044G	SAFETY SHEET	1	MX-J70/MX-J76	C
		BT-20044G	SAFETY SHEET	1	MX-J70/MX-J76	J
		E43486-340A	SAFETY SHEET	1	CA-MXJ75R	B
	A 4	BT-52002-1	WARRANTY CARD	1	MX-J70/MX-J76	C
		BT-54008-2	WARRANTY CARD	1	CA-MXJ75R	B E EN
		BT-54012-1	WARRANTY CARD	1	MX-J75R	EE
		BT-54012-1	WARRANTY CARD	1	CA-MXJ75R	EV
		BT-56001-2	WARRANTY CARD	1	CA-MXJ70	A
		BT-56004-5	WARRANTY CARD	1	CA-MXJ70	UP
	A 5	BT-51020-1	J=REGIST CARD	1	MX-J70	J
		VNA3000-202	REGISTER CARD	1	CA-MXJ75R	B
	A 8	BT-20071B	SVC CENTER LIST	1	MX-J70/MX-J76	C
		BT-56002-2	SVC CENTER LIST	1	CA-MXJ70	A
	A 9	EWP201-011	ANTENNA WIRE	1	MX-J70/MX-J76	
		EWP201-011	ANTENNA WIRE	1	CA-MXJ70	U US UT UP
		EWP201-011	ANTENNA WIRE	1	CA-MXJ70	UX UY
		EWP503-001	ANTENNA WIRE	1	CA-MXJ70	A
		EWP503-001	ANTENNA WIRE	1	CA-MXJ75R	
	A 10	QAL0014-001	LOOP ANTENNA	1		
	A 13	RM-SMXJ70E	WIRE-LESS REMOTE CONTROL	1	CA-MXJ70	A
		RM-SMXJ70J	WIRE-LESS REMOTE CONTROL	1	MX-J70/MX-J76	
		RM-SMXJ70U	WIRE-LESS REMOTE CONTROL	1	CA-MXJ70	U UP US UT
		RM-SMXJ70U	WIRE-LESS REMOTE CONTROL	1	CA-MXJ70	UX UY
		RM-SMXJ75R	WIRE-LESS REMOTE CONTROL	1	CA-MXJ75R/MX-J75R	
	A 14	------------	BATTERY	2		
	A 15	QAM0112-001	AC PLUG ADAPTER	1	CA-MXJ70	U US
		VMZ0139-001	CONNECT PLUG	1	CA-MXJ70	UT UX
	SVP4	MXJ56K-SPBOX-L	SPEAKER BOX L	1	MX-J76	
		MXJ56K-SPBOX-R	SPEAKER BOX R	1	MX-J76	
		MXJ70K-SPBOX-L	SPEAKER BOX L	1	CA-MXJ70 / CA-MXJ75R	
		MXJ70K-SPBOX-R	SPEAKER BOX R	1	CA-MXJ70 / CA-MXJ75R	
		MXJ70K-SPBOX-L	SPEAKER BOX L	1	MX-J70 / MX-J75R	
		MXJ70K-SPBOX-R	SPEAKER BOX R	1	MX-J70 / MX-J75R	
	SVP6	SP-DSS99SL	SROUND SPEAKER BOX	2	CA-MXJ70/J75R MX-J70/J75R	
		SP-DSC99SL	SROUND SPEAKER BOX	1	CA-MXJ70/J75R MX-J70/J75R	
		SP-DSS99GY	SROUND SPEAKER BOX	2	MX-J76	
		SP-DSC99GY	SROUND SPEAKER BOX	1	MX-J76	